

Label Machine Setup Tool User Guide

I . Preparations Before Using the Setup Tool

1. Connect the printer to a power source, turn on the power switch, start the printer;
2. Use a USB cable to connect the computer and the printer;
3. Download the corresponding setup tool from the official website.

II . Operation Steps

1、Obtain Printer

Click the **[Get list]** button in the label machine setup tool and select the printer model from the list (shown in Fig.1). After selecting the printer model, you can proceed to the next step of the settings. If no printer is selected and you click other buttons, a prompt box "Please select a printer from the printed list first" will appear (shown in Fig.2).

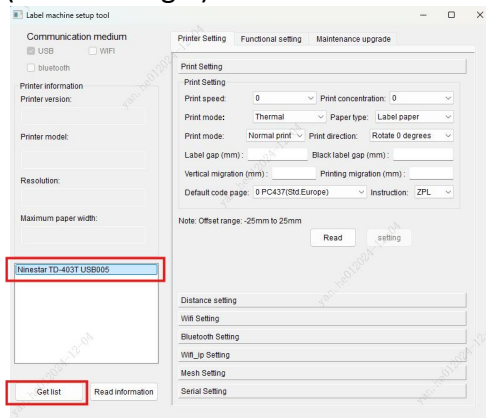


Fig.1

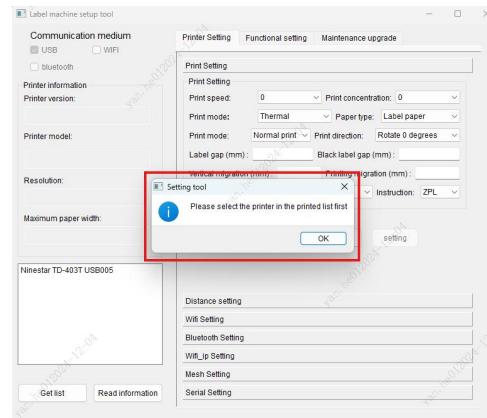


Fig.2

2、Read Printer Information

After selecting the printer, click **[Read information]** to obtain the printer information. A "Succeed" prompt box will appear, indicating that the printer version, model, resolution, and maximum paper width have been successfully retrieved (shown in Fig.3).

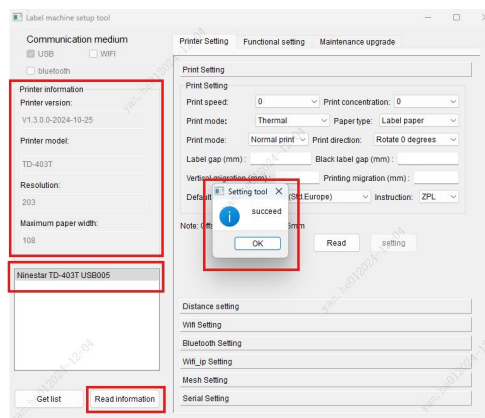


Fig.3

3、Printer Setting

(1) Print Setting:

Select the "**Printer Setting**" section and click on "**Print Setting**". You need to first click [**Read**] to obtain the current print settings of the printer; otherwise, the "Set" button will be grayed out and unclickable (shown in Fig.4). After making changes to the print setting, click [**setting**]. If a "Set success" prompt box appears, it indicates that the settings have been successfully applied (shown in Fig.5).

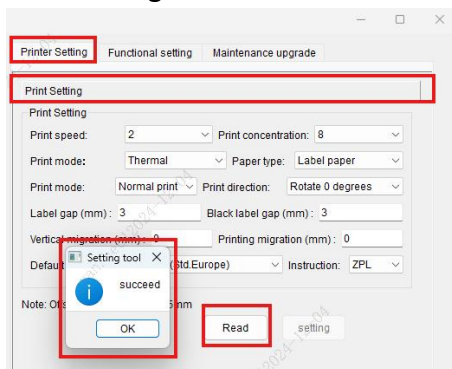


Fig.4

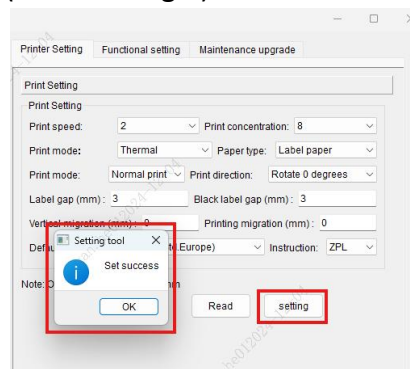


Fig.5

Print setting include the following content:

- ① **Print Speed:** The speed range is 0~7; click the dropdown arrow on the right to freely select a value (shown in Fig.6).

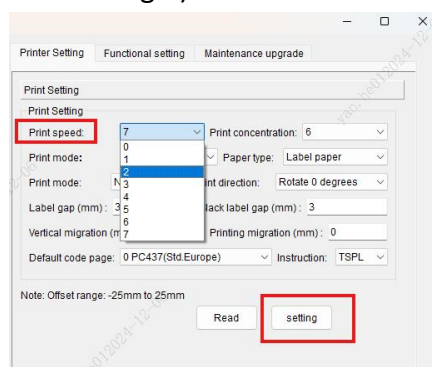


Fig.6

- ② **Print Concentration:** Range is 0~15, click the dropdown arrow on the right to freely select a value (shown in Fig.7).

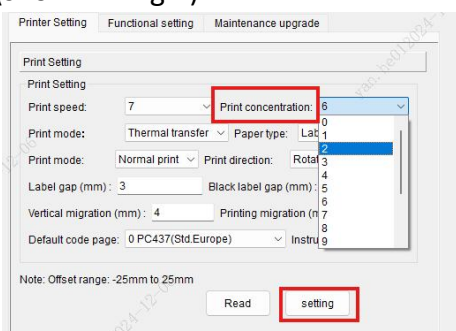


Fig.7

- ③ **Print Mode:** There are two printing modes, thermal and thermal transfer. Select according to the printing mode supported by the printer (shown in Fig.8).

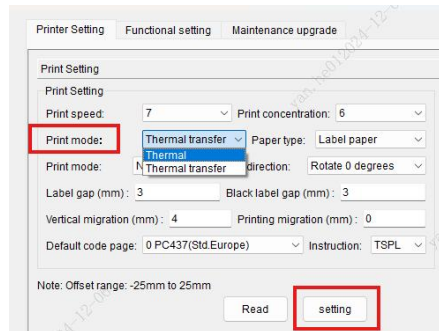


Fig.8

- ④ **Paper Type:** Includes label paper, black paper, continuous paper, AUTO (automatic mode), please select according to the actual situation (shown in Fig.9).

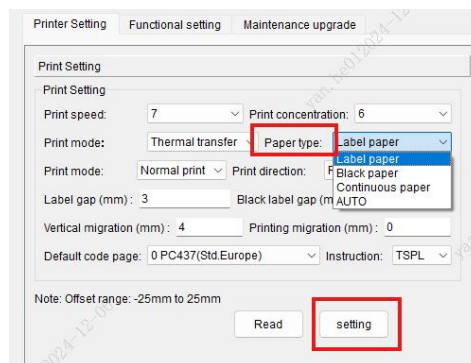


Fig.9

- ⑤ **Print Mode:** Including normal print and mirror print (shown in Fig.10).

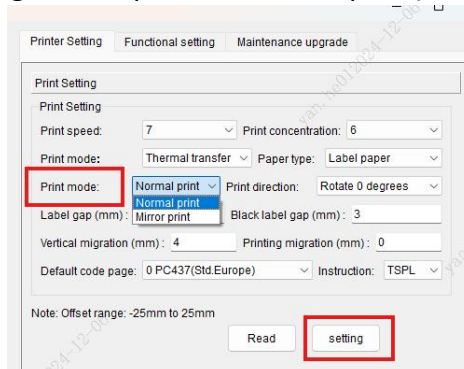


Fig.10

- ⑥ **Printing Direction:** Includes rotate 0 degrees, rotate 180 degrees (shown in Fig.11).

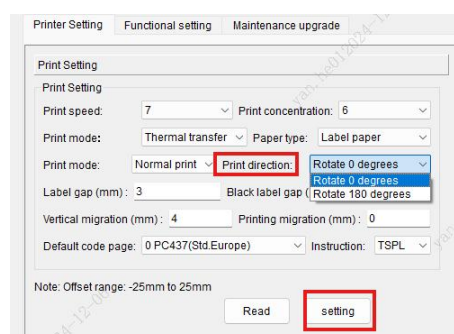


Fig.11

- ⑦ **Label Gap:** Please fill in according to the actual gap of the label paper .

Printer Setting Functional setting Maintenance upgrade

Print Setting

Print speed: 7 Print concentration: 6

Print mode: Thermal transfer Paper type: Label paper

Print mode: Normal print Print direction: Rotate 0 degrees

Label gap (mm): 3 Black label gap (mm): 3

Vertical migration (mm): 4 Printing migration (mm): 0

Default code page: 0 PC437(Std.Europe) Instruction: TSPL

Note: Offset range: -25mm to 25mm

Read setting

Fig.12

- ⑧ **Black Label Gap:** Please fill in according to the actual gap of the black label paper.

Print Setting

Print speed: 7 Print concentration: 6

Print mode: Thermal transfer Paper type: Label paper

Print mode: Normal print Print direction: Rotate 0 degrees

Label gap (mm): 3 Black label gap (mm): 3

Vertical migration (mm): 4 Printing migration (mm): 0

Default code page: 0 PC437(Std.Europe) Instruction: TSPL

Note: Offset range: -25mm to 25mm

Read setting

Fig.13

- ⑨ **Vertical Migration:** The offset range is -25mm to 25mm; please adjust as needed (see Fig.14). When the offset value is negative, the image shifts downward and the paper shifts upward; when the offset value is positive, the image shifts upward and the paper shifts downward.

Print Setting

Print speed: 7 Print concentration: 6

Print mode: Thermal transfer Paper type: Label paper

Print mode: Normal print Print direction: Rotate 0 degrees

Label gap (mm): 3 Black label gap (mm): 3

Vertical migration (mm): -4 Printing migration (mm): 0

Default code page: 0 PC437(Std.Europe) Instruction: TSPL

Note: Offset range: -25mm to 25mm

Read setting

Fig.14

- ⑩ **Printing Migration:** The offset range is -25mm to 25mm; please set as required (shown in Fig.15). When the offset value is positive, the image shifts to the right; when the offset value is negative, the image shifts to the left.

Print Setting

Print speed: 7 Print concentration: 6

Print mode: Thermal transfer Paper type: Label paper

Print mode: Normal print Print direction: Rotate 0 degrees

Label gap (mm): 3 Black label gap (mm): 3

Vertical migration (mm): 4 Printing migration (mm): 0

Default code page: 0 PC437(Std.Europe) Instruction: TSPL

Note: Offset range: -25mm to 25mm

Read setting

Fig.15

- ⑪ **Default Code Page:** Please select according to your needs (shown in Fig. 16).

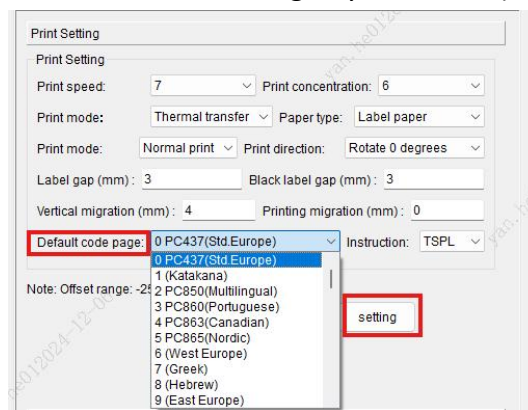


Fig.16

- ⑫ **Instruction Set:** Currently supports TSPL, ZPL, AUTO (automatic recognition of both commands) three modes, Please select as needed to ensure the current printer operates with matching instructions (shown in Fig.17).

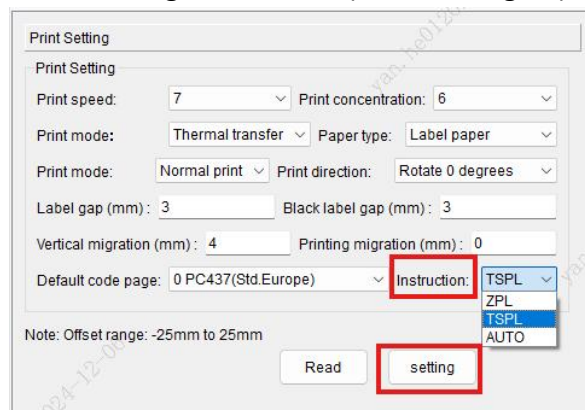


Fig.17

(2)Distance Setting

Select the "Printer Setting" section and choose "Distance setting." You need to first click **[Read]** to obtain the printer's current distance settings; otherwise, the **[setting]** button will be grayed out and unclickable (shown in Fig.18). After making changes to the distance setting, click **[setting]**. If a "Set success" prompt box appears, it indicates that the settings have been successfully applied (shown in Fig.19).

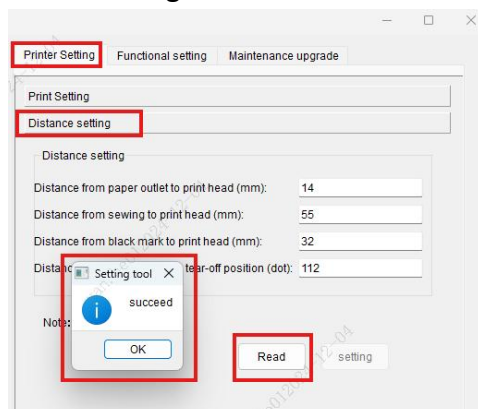


Fig.18

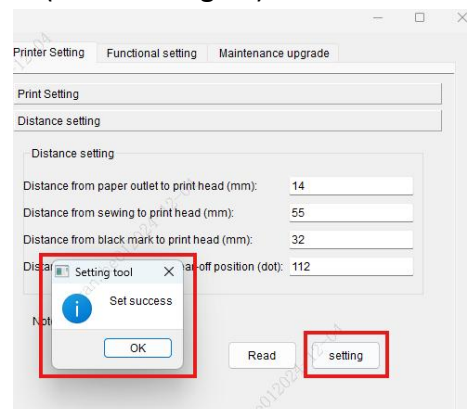
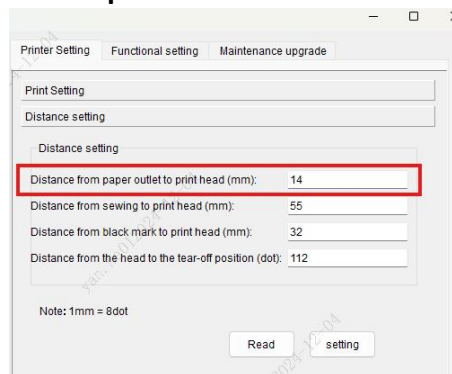


Fig.19

Distance setting include the following:

- ① **Distance from paper outlet to print head:** Please set according to requirements.

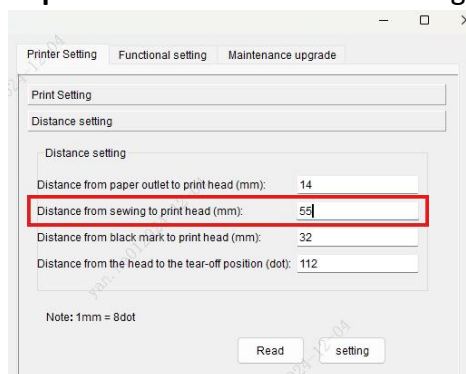


The screenshot shows a software window titled 'Printer Setting' with three tabs: 'Printer Setting', 'Functional setting', and 'Maintenance upgrade'. The 'Printer Setting' tab is active, and the 'Distance setting' sub-tab is selected. Under the 'Distance setting' section, there are four input fields. The first field, 'Distance from paper outlet to print head (mm):', has the value '14' and is highlighted with a red rectangle. The other fields are 'Distance from sewing to print head (mm):' with value '55', 'Distance from black mark to print head (mm):' with value '32', and 'Distance from the head to the tear-off position (dot):' with value '112'. Below these fields is a note: 'Note: 1mm = 8dot'. At the bottom right are 'Read' and 'setting' buttons.

Setting	Value
Distance from paper outlet to print head (mm):	14
Distance from sewing to print head (mm):	55
Distance from black mark to print head (mm):	32
Distance from the head to the tear-off position (dot):	112

Fig.20

- ② **Distance from sewing to print head :** Please set according to requirements.

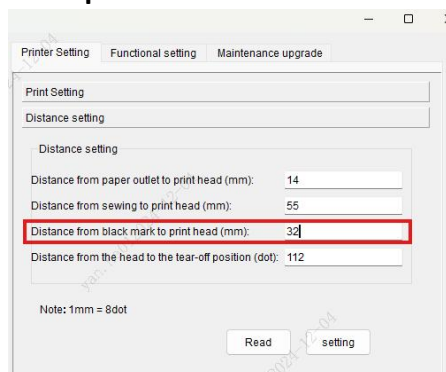


The screenshot shows the same 'Distance setting' window as Fig.20. In this instance, the second input field, 'Distance from sewing to print head (mm):', has the value '55' and is highlighted with a red rectangle. All other values and the interface elements remain the same.

Setting	Value
Distance from paper outlet to print head (mm):	14
Distance from sewing to print head (mm):	55
Distance from black mark to print head (mm):	32
Distance from the head to the tear-off position (dot):	112

Fig.21

- ③ **Distance from black mark to print head :** Please set according to your needs.

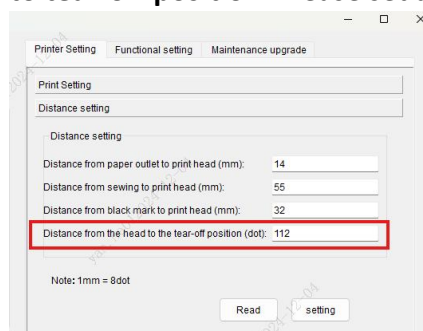


The screenshot shows the same 'Distance setting' window. The third input field, 'Distance from black mark to print head (mm):', has the value '32' and is highlighted with a red rectangle. All other values and the interface elements remain the same.

Setting	Value
Distance from paper outlet to print head (mm):	14
Distance from sewing to print head (mm):	55
Distance from black mark to print head (mm):	32
Distance from the head to the tear-off position (dot):	112

Fig.22

- ④ **Distance from the head to tear-off position:** Please set according to your needs.



The screenshot shows the same 'Distance setting' window. The fourth input field, 'Distance from the head to the tear-off position (dot):', has the value '112' and is highlighted with a red rectangle. All other values and the interface elements remain the same.

Setting	Value
Distance from paper outlet to print head (mm):	14
Distance from sewing to print head (mm):	55
Distance from black mark to print head (mm):	32
Distance from the head to the tear-off position (dot):	112

Fig.23

(3)WiFi Setting

Click "WiFi Setting" to enter the WiFi setting page, first click **[Read]** to obtain the printer's WiFi name and password (shown in Fig.24), otherwise the **[setting]** button will be grayed out and cannot be clicked.

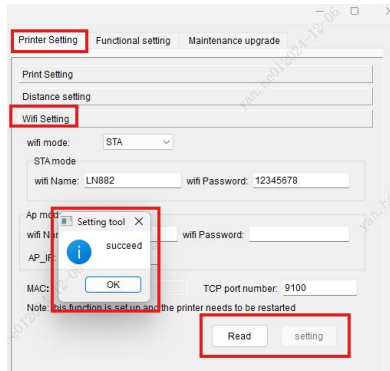


Fig.24

(a) If the printer defaults to WiFi in **AP mode**;

① In the WiFi setting interface, click **[Read]**, the WiFi mode column will display AP, and obtain the AP_IP address; users can freely change the WiFi name, password, and IP address. After making changes, click **[setting]**, and upon a successful prompt, restart the printer to complete the changes (shown in Fig.25 and 26).

Note: After changing the WiFi settings, the printer needs to be restarted.

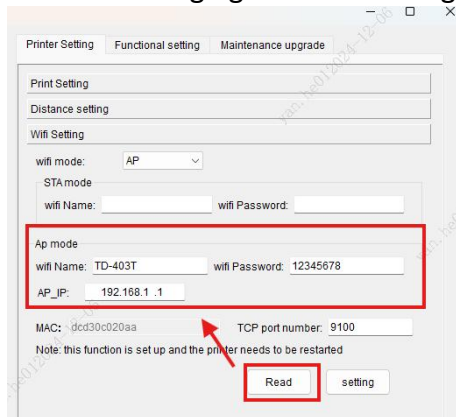


Fig.25

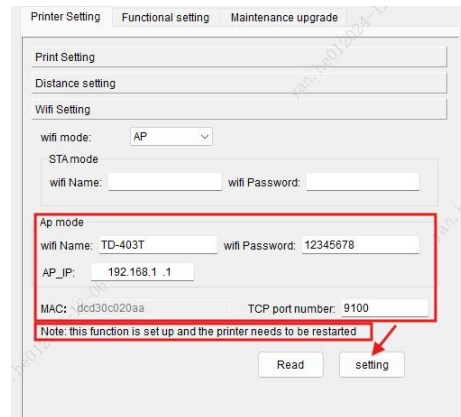


Fig.26

② **AP mode switches to STA mode:** In the WiFi module, select "STA" and click **[setting]** (shown in Fig.27). For specific setup methods, refer to the STA setup method below (see Fig.28 and 29).

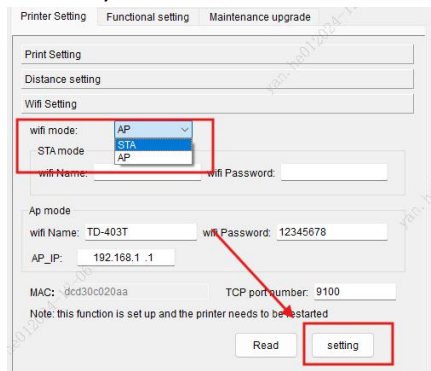


Fig.27

(b) If the printer's default WiFi is in **STA mode**:

① **STA setup method**: In the WiFi setting interface, first click **[Read]**, the WiFi mode column will display STA. In STA mode, enter the hotspot name and password that need to be matched, and click the **[setting]** button (shown in Fig.28 and 29).

Print Setting
Distance setting
Wifi Setting
wifi mode: STA
STA mode
wifi Name: wifi Password:
Ap mode
wifi Name: TD-403T wifi Password: 12345678
AP_IP: 192.168.1.1
MAC: dcd30c020aa TCP port number: 9100
Note: this function is set up and the printer needs to be restarted
Read setting

Fig.28

Printer Setting Functional setting Maintenance upgrade
Print Setting
Distance setting
Wifi Setting
wifi mode: STA
wifi Name: LN882 wifi Password: 12345678
Ap mode
wifi Name: wifi Password:
AP_IP:
MAC: dcd30c020aa TCP port number: 9100
Note: this function is set up and the printer needs to be restarted
Read setting

Fig.29

② In the WiFi_IP setting interface, click the **[Read]** button to obtain the WiFi_IP address (IP mode is DHCP ON) (shown in Fig. 30 and 31). If the IP mode is "DHCP OFF", you need to select "DHCP ON" in the IP mode of the "WiFi_IP Setting", click **[Setting]**, and then click the **[Read]** button;

Note: If you cannot obtain the IP address, check whether the IP mode is "DHCP OFF" or if there are errors in the entered configuration hotspot name and password.

Printer Setting Functional setting Maintenance upgrade
Print Setting
Distance setting
Wifi Setting
Bluetooth Setting
Wifi_ip Setting
IP Setting
IP mode: DHCP OFF
Subnet mask: DNS:
IP: Gateway address:
Read setting

Fig.30

Printer Setting Functional setting Maintenance upgrade
Print Setting
Distance setting
Wifi Setting
Bluetooth Setting
Wifi_ip Setting
IP Setting
IP mode: DHCP ON
Subnet mask: 255.255.255.0 DNS: 192.168.31.1
IP: 192.168.31.13 Gateway address: 192.168.31.1
Read setting

Fig.31

③ **Switch STA mode to AP mode**: In the WiFi module, select "AP", click **[setting]**, and **restart the printer** (shown in Fig.32).

Printer Setting Functional setting Maintenance upgrade
Print Setting
Distance setting
Wifi Setting
wifi mode: AP
STA mode
wifi Name: LN882 wifi Password: 12345678
Ap mode
wifi Name: wifi Password:
AP_IP:
MAC: dcd30c020aa TCP port number: 9100
Note: this function is set up and the printer needs to be restarted
Read setting

Fig.32

(4)Bluetooth Setting

First, click **[Read]** to obtain the current Bluetooth settings information of the printer; otherwise, the **[setting]** button will be grayed out and cannot be clicked (shown in Fig.33). After making changes to the Bluetooth setting, click **[setting]**. If a "succeed" prompt box appears, it indicates that the settings have been successfully applied (shown in Fig.34).

Note: This function requires restarting the printer after changing the settings.

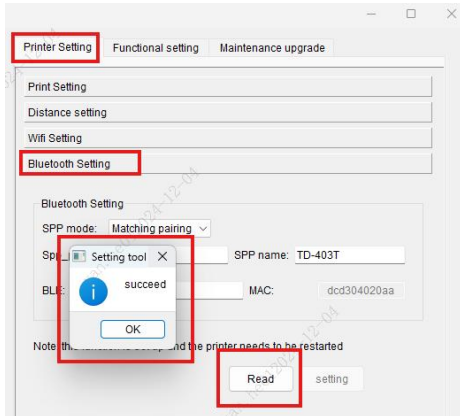


Fig.33

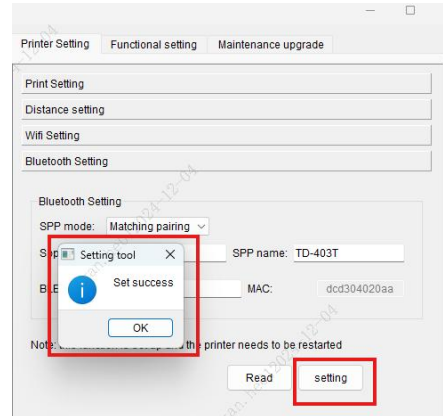


Fig.34

- ① Simple Pairing: Select "Simple Pairing" for the SPP connection mode, click **[setting]** (shown in Fig.35), and restart the printer after successful setup. Taking a mobile phone as an example, turn on the phone's Bluetooth, find the printer's Bluetooth, and click to connect. In the pairing request that pops up, click "Pair" to successfully connect (shown in Fig.36).

Note: (1) The Bluetooth name can be read through the setup tool or obtained by printing a self-test page from the printer;

(2) When modifying the Bluetooth name, both the "SPP Name" and "BLE" must be modified simultaneously and the content must be identical, otherwise the Bluetooth name modification will fail.

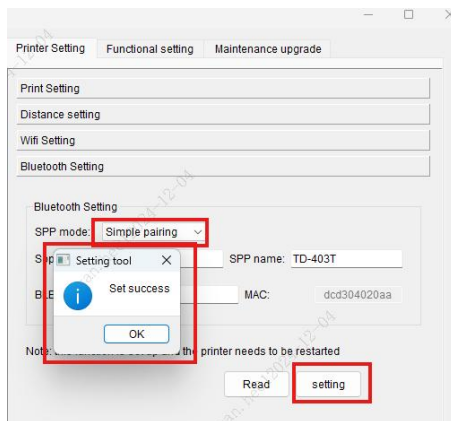


Fig.35

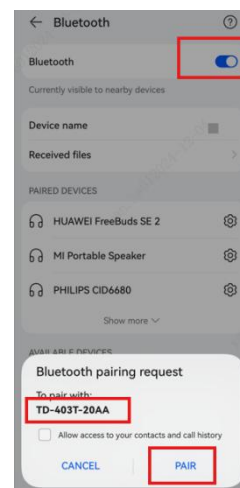


Fig.36

- ② Matching Pairing: Select "Matching Pairing" for the SPP connection mode, enter the pairing code in the "SPP_PIN Code" box, or select the default pairing code, and then click "setting" (shown in Fig.37). After successful setup, restart the

printer. Taking a mobile phone as an example, turn on the phone's Bluetooth, find the printer's Bluetooth and click to connect. In the Bluetooth pairing request that pops up, enter the PIN code to successfully connect (shown in Fig.38).

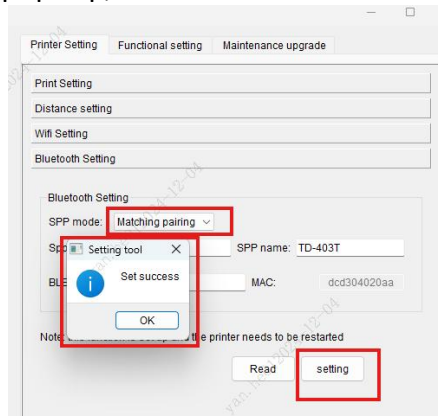


Fig.37

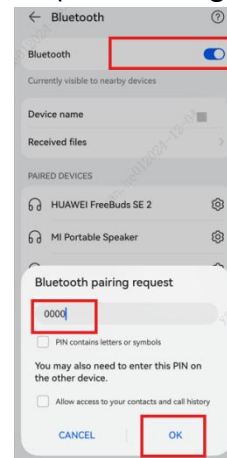


Fig.38

(5)Mesh Setting:

(only supported on printers with network port configuration: TD-403T).

Click "Mesh setting" to enter the network port information setup.

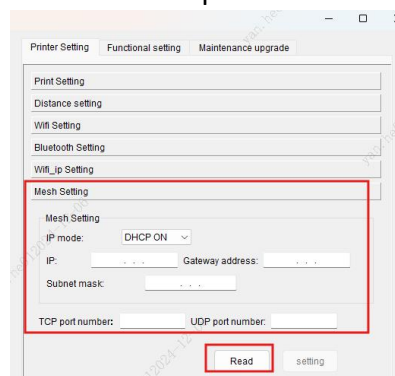


Fig.39

- ① When the computer and printer are directly connected using a network cable, the computer's IP address during the direct connection can be viewed through the Control Panel (path: **Control Panel** → **Network and Internet** → **Network and Sharing Center**). Click "Ethernet" in the interface, and after entering the interface, click "Details" to view the IP address(shown in Fig.40 and 41).

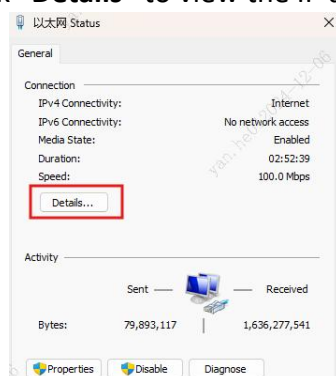


Fig.40

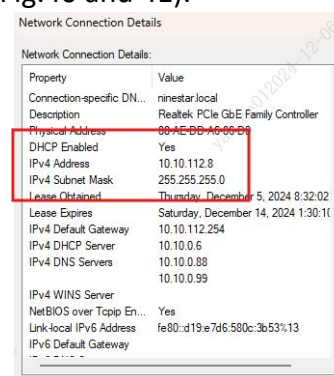


Fig.41

In the "Mesh setting", first click **[Read]**, then select "**DHCP OFF**" for the IP mode. Enter an IP address in the same subnet as your computer's IP address, and click **[setting]** to complete (e.g., IP: 169.220.1.xxx, Gateway: 169.220.1.1, Subnet Mask: 255.255.255.0), shown in Fig.42.

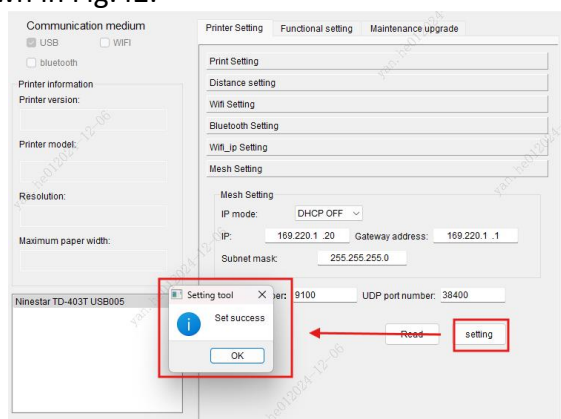


Fig.42

- ② When the computer and the printer are on the same local area network, confirm that the IP mode is set to "**DHCP ON**" in the "**Mesh setting**" interface, then click **[Read]** to obtain the printer's dynamic IP address (shown in Fig.43). If the read IP mode is "DHCP OFF", you need to select "DHCP ON" in the IP mode of the "Mesh setting", click "setting", and then click the "Read" button.

Note: You can also print a self-test page to check the network port IP address.

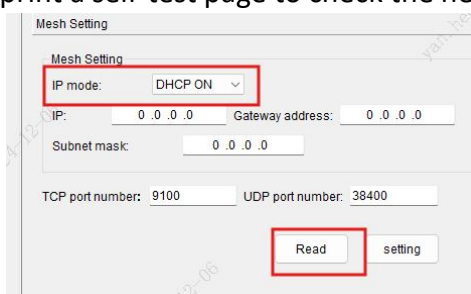


Fig.43

(6)Serial setting: Different stop bits, data bits, baud rates, and port rate can be set. Select "Serial setting" under the "Printer setting" section, click "Read," and a "succeed" prompt box will appear, indicating that the current printer's serial port settings have been successfully obtained (shown in Fig. 44).。

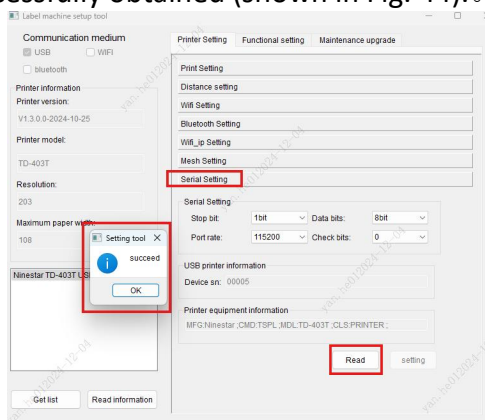


Fig.44

① Stop bit: The length of the stop bit is divided into 1 bit and 2 bits; please select according to your needs (shown in Fig.45).

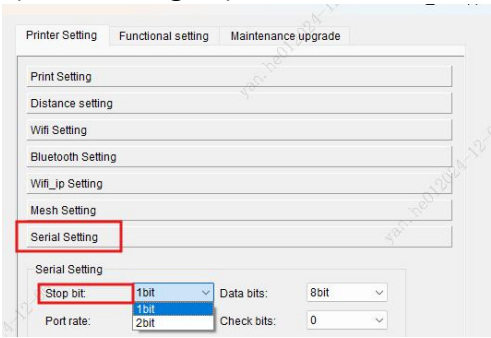


Fig.45

② Data bits: Data bits are 7 bits and 8 bits, please choose according to your needs.

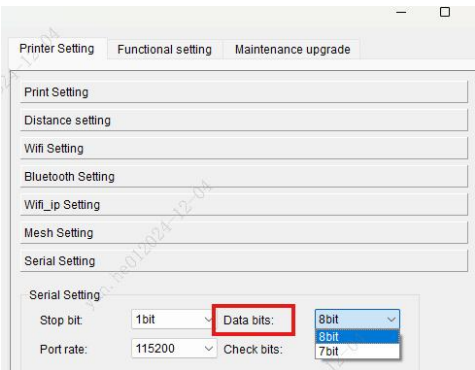


Fig.46

③ port rate: The baud rate determines the speed of data transmission; a higher baud rate results in faster transmission speed, but it also increases device power consumption and the likelihood of transmission errors. Please select according to your needs (shown in Fig.47).

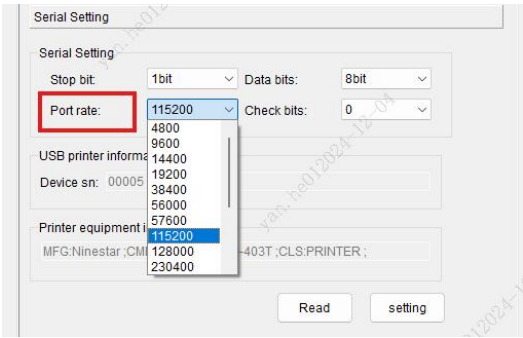


Fig.47

③ Check bits: The check digit includes 0, 1, 2, please choose according to your needs.

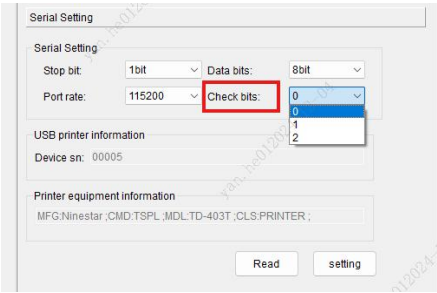


Fig.48

4、Functional setting

(1)Restart the machine: Select the "Functional setting" section and click,a "Set success" prompt box will appear (shown in Fig.49), indicating that the printer has restarted successfully. You can observe the changes in the machine's indicator lights.

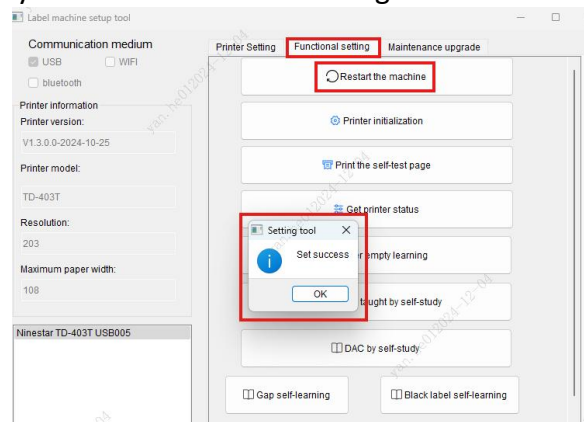


Fig.49

(2)Printer initialization: Select the "Functional setting" section and click on "Printer Initialization" which will prompt the "Set success" dialog box (shown in Fig.50), indicating that the printer initialization is successful.

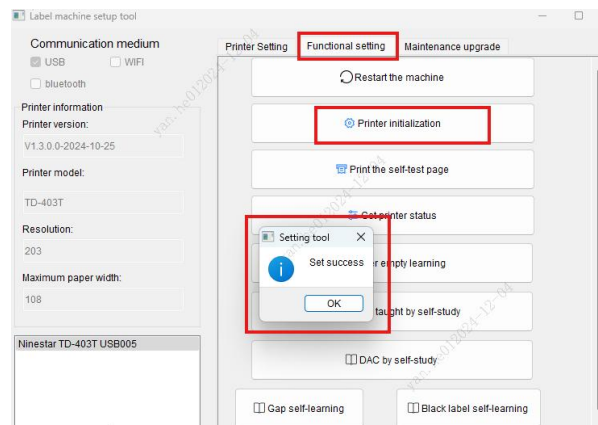


Fig.50

(3)Print a self-test page: Select the "Functional setting" section and click "Print Self-Test Page" and a "Set success" prompt box will appear (shown in Fig.51).

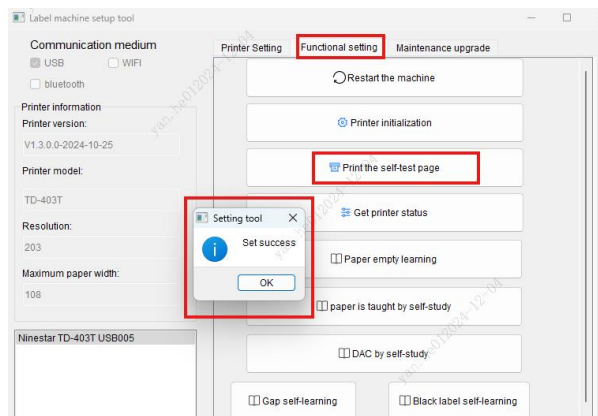


Fig.51

(4)Get Printer Status: When the printer encounters an issue, this feature can be used to identify the problem. Select the "Function setting" section and click "Get Printer Status" to display a prompt box showing the current status of the printer, as shown in Table 1.

Table 1

打印机状态	设置工具提示框
空闲	
缺纸	
开盖	
无碳带	
指令错误	
打印中	
打印过程中暂停	
打印过程中定位异常	

(5) **Paper empty Learning:** The printer learns and records the paper out status. Select the "Functional setting" section and click "Paper empty Learning".

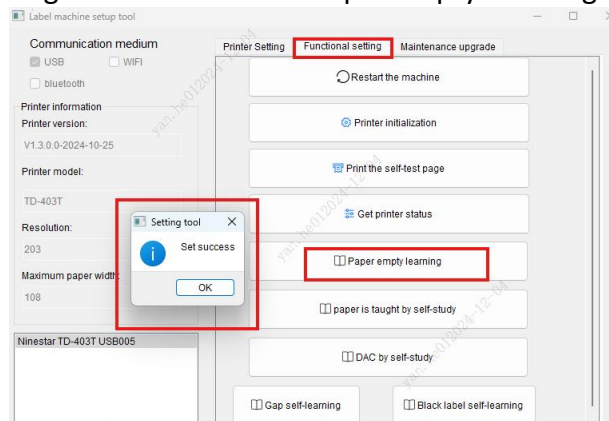


Fig.52

(6) **Paper is taught by self-study:** Resetting the output tray paper edge sensor helps the printer control the paper feed and printing process more accurately, reducing issues such as paper jams and missed prints. Select the "Functional setting" section and click on "Paper is taught by self-study" to prompt the "Set success" dialog box.

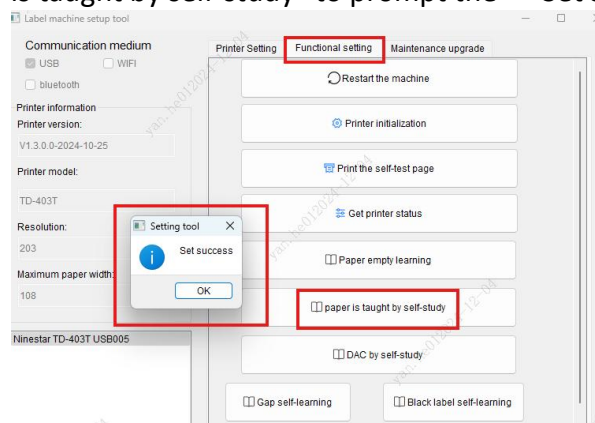


Fig.53

(7) **DAC by self-study:** The printer learns and records the current paper status. Select the "Functional setting" section and click on "DAC by self-study" to pop up the "Set success" prompt box as shown in Fig.54.

Note: "DAC by self-study" needs to be performed when switching between different paper materials to prevent issues such as label skipping and positioning abnormalities.

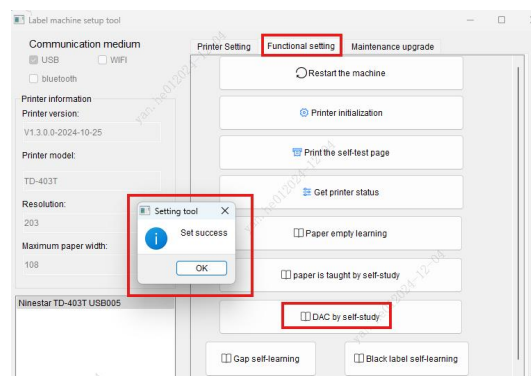


Fig.54

(8)Gap Self-Learning: The printer learns and records the current paper gap status. Select the "Functional Settings" section and click "Gap Self-Learning" to pop up the "Set Success" prompt box as shown in Figure 55.

Note: When positioning abnormalities occur during gap paper printing, this function can be clicked for gap calibration.

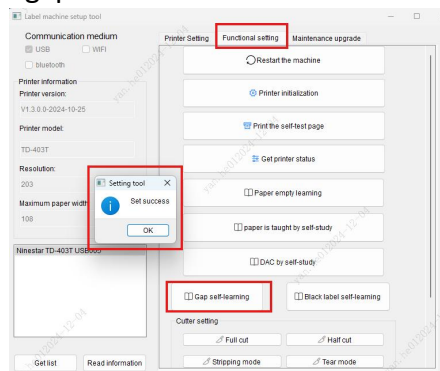


Fig.55

(9)Black Label Self-Learning: The printer learns and records the current status of the black label on the paper. Select the "Functional Settings" section and click "Black Label Self-Learning" to pop up the "Set Success" prompt box as shown in Figure 56.

Note: When using black label paper and encountering positioning issues during printing, this function can be clicked to perform black label calibration.

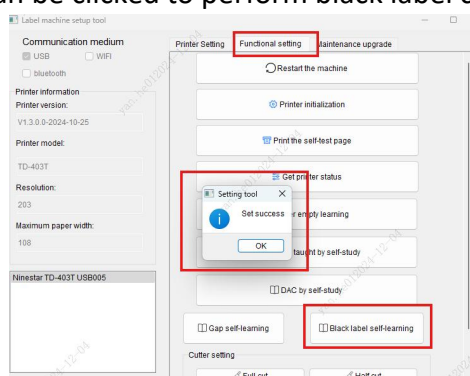


Fig.56

(10)Cutter setting (supported only on printers with an internal cutter or an external cutter attachment).

(11)Key set on:Select "Key Set on" and a "Set success" prompt box will appear (shown in Fig.57), allowing the printer keys to function normally.

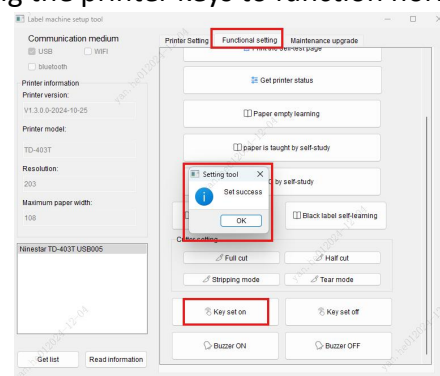


Fig.57

(12)Key set off:Select "Key set off," and a "Set success" prompt box appears, disabling the key function, and the printer does not respond when the key is pressed.

For example: Under normal circumstances, pressing the TD-403T key once causes the lights around the key to illuminate and the printer to issue a blank label; however, after the key settings are turned off, the only phenomenon observed is the lights illuminating, and the key settings function must be enabled for the key to operate normally.

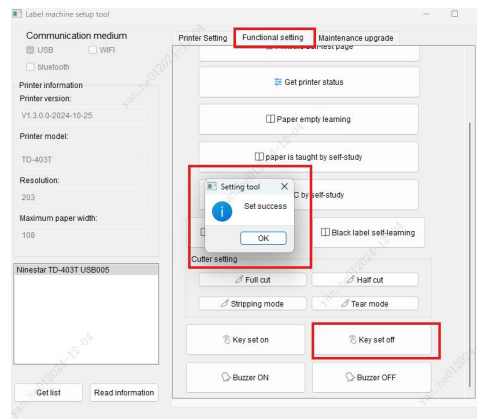


Fig.58

(13)Buzzer ON:Select "Buzzer ON" and a "Set success" prompt box will appear (shown in Fig.59), indicating that the buzzer function is activated normally.

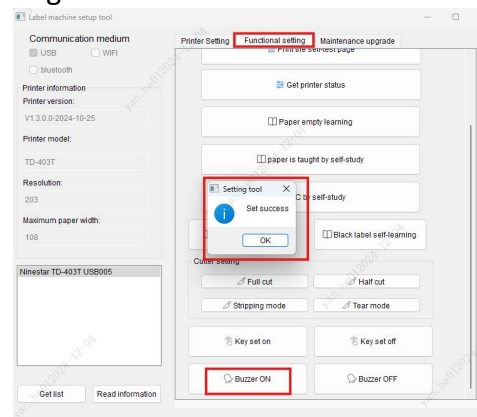


Fig.59

(14)Buzzer OFF:Select "Buzzer OFF" a "Set success" prompt box will appear (shown in Fig.60), the buzzer function is disabled, and during an alarm, there will be no buzzer sound, only the light will illuminate.

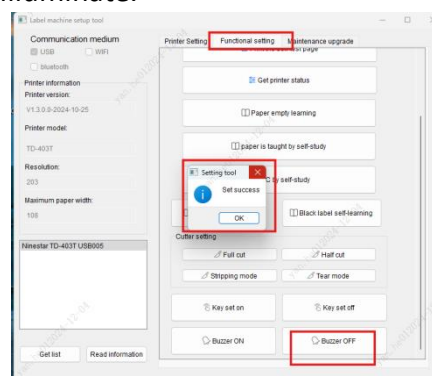


Fig.60

5. Maintenance Upgrade

(1)Download firmware:

Select the "Maintenance Upgrade" section, click "Download Firmware", and when the progress bar reaches 100%, a prompt box "Wait for the printer lights to stop flashing" will appear (shown in Fig.61). Once the printer's indicator light stops flashing, the firmware upgrade is successful.

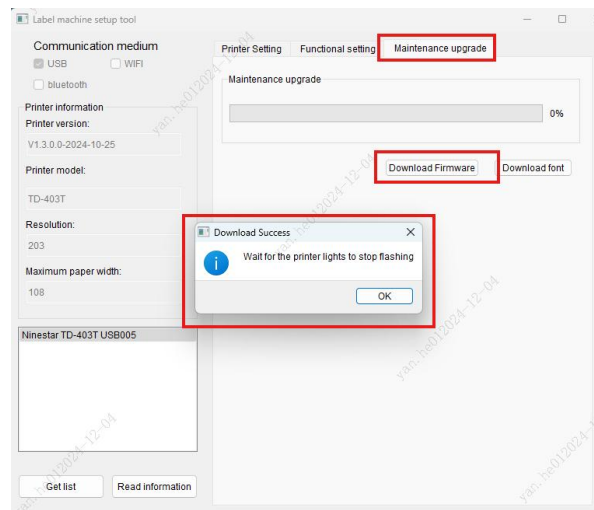


Fig.61

(2)Download font:

Select the "Maintenance Upgrade" section, click "Download font", and when the progress bar reaches 100%, a prompt box "Wait for the printer lights to stop flashing" will appear (shown in Fig.62). Once the printer indicator light stops flashing and a beep sound is heard, the font library download is successful.

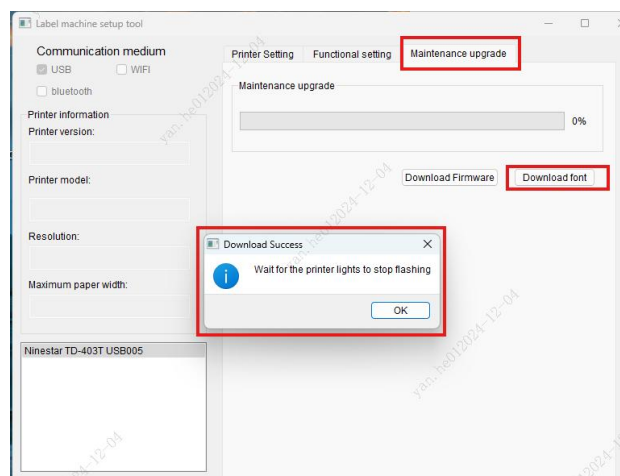


Fig.62