

Barcode Printer

TSC Console PC

Thermal Transfer • Direct Thermal



User Manual

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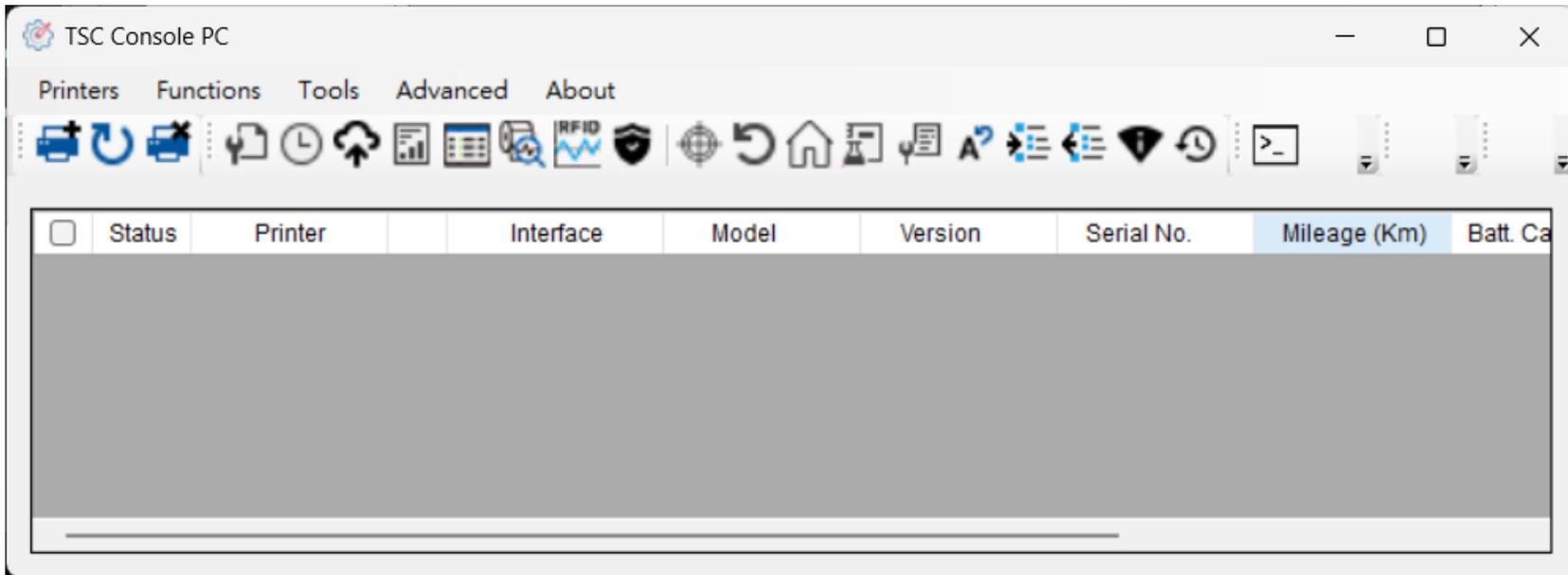
1. Introduction

TSC Console PC is a management tool combining the Printer Management, Diagnostic Tool, CommTool and Printer Webpage settings, which enables you to adjust printer's settings/status; change printers' settings; download graphics, deploy fonts, graphics, label templates or upgrade the firmware to the group of printers, and send additional commands to printers at the same time.

This manual provides the essential information and clear instructions for operating TSC Console PC. TSC Console PC can be found on TSC website at <https://www.tscprinters.com>

2. Getting Started

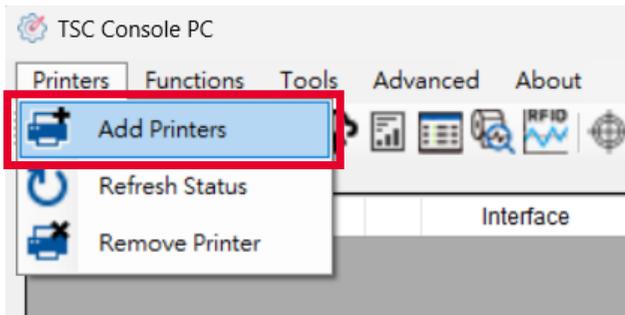
1. Unzip the TSC Console PC file.
2. Double click TSC Console PC icon to start the software.



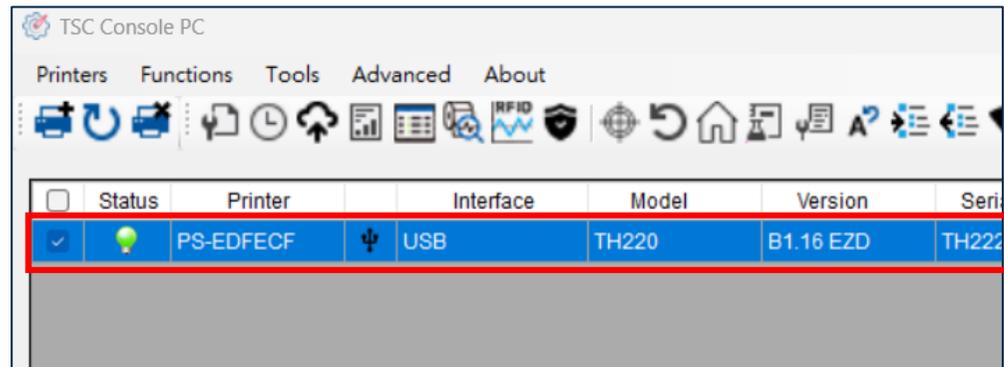
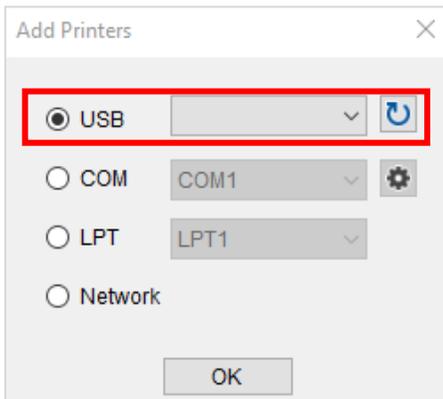
3. Interface Setup

3.1 USB

1. Click the **Printers** and select **Add Printers**. ()



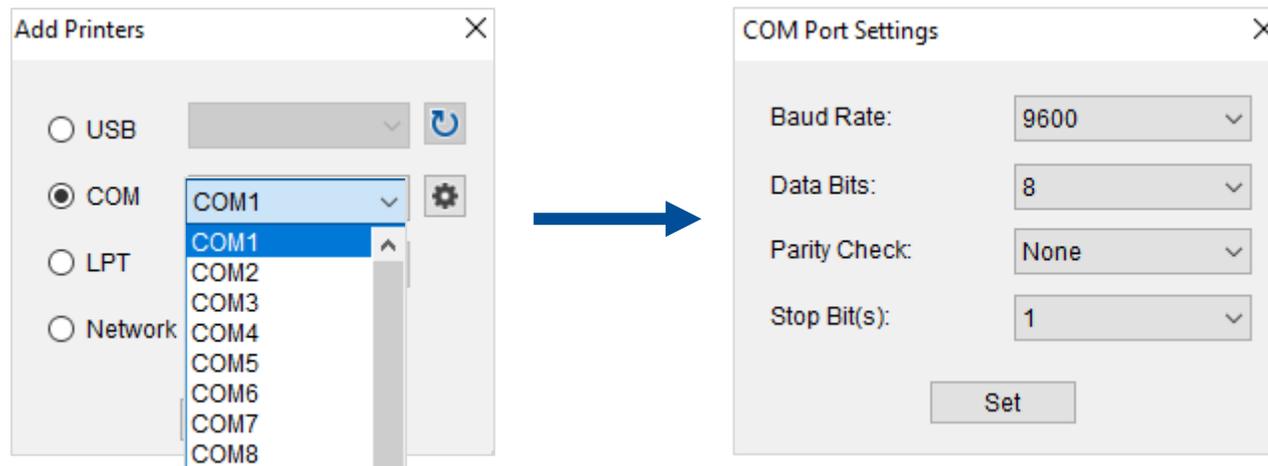
2. Select **USB** and click **OK** to find the device.



3.2 COM and LPT

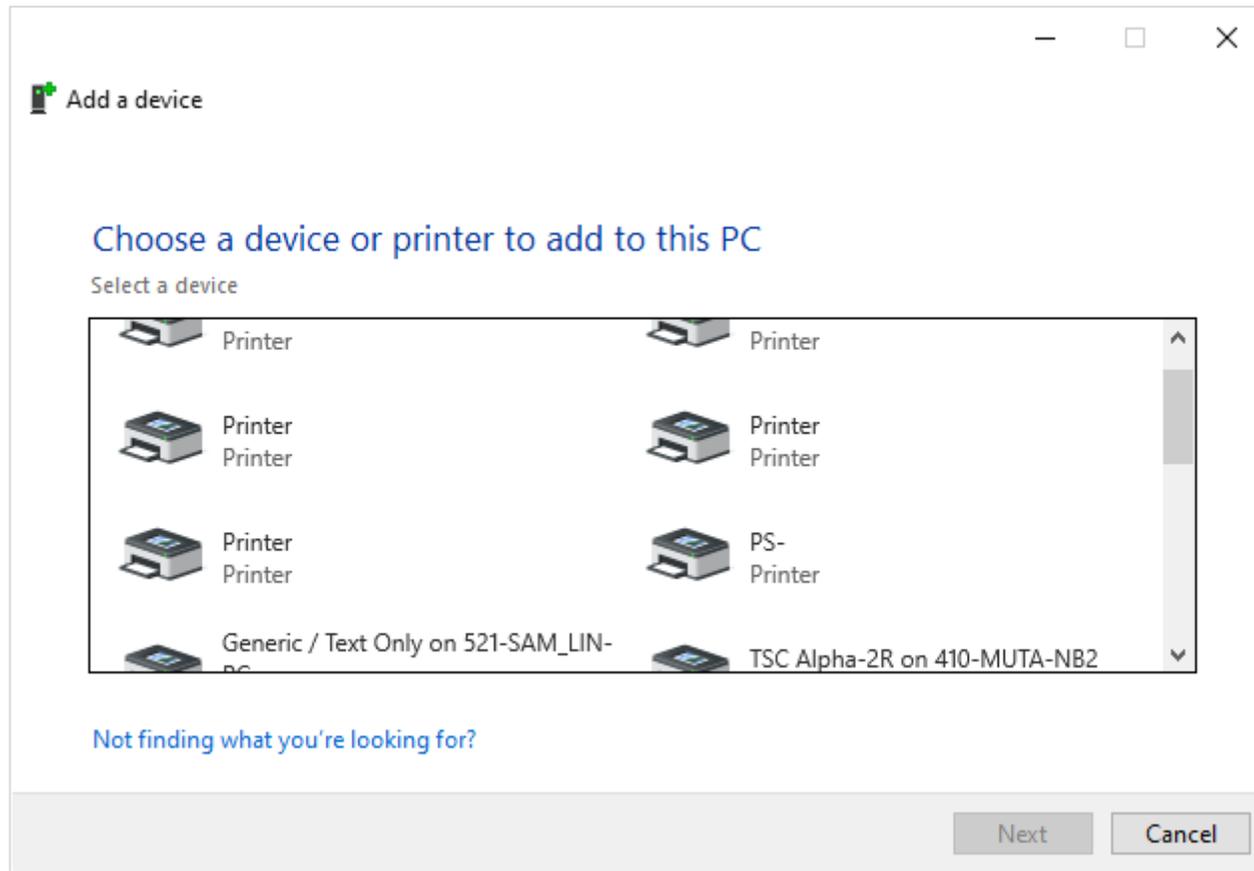
3.2.1 RS-232

1. Use **COM Port** through the computer to connect to the printer.
2. Select the corresponding **COM Port** and finish the setup.

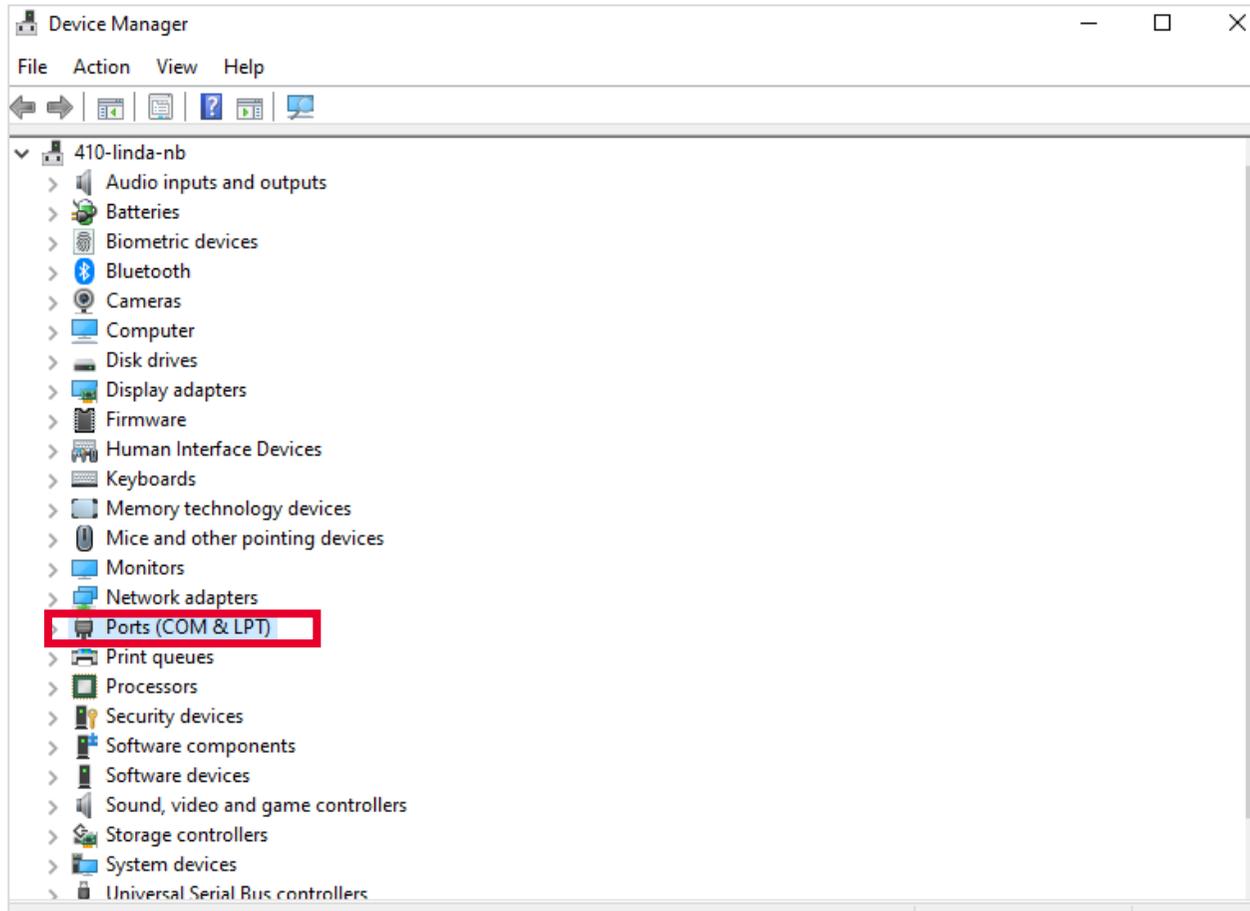


3.2.2 Bluetooth

1. [Control Panel] → [Hardware and Sound] → [Devices and Printers] → [Add Device] (Select the Bluetooth name)



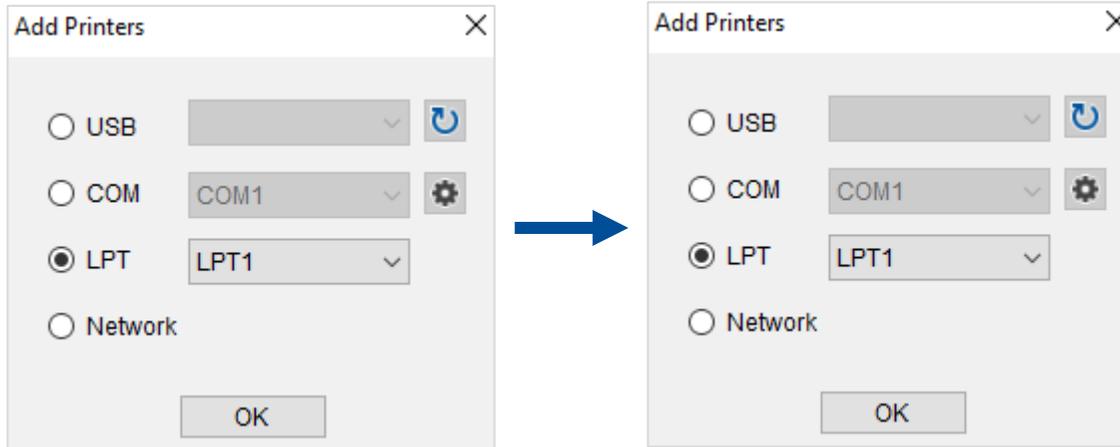
2. [Control Panel] → [Hardware and Sound] → [Devices and Printers] → [Device Manager] (Check COM Port)



3. Select the corresponding **Com Port** on **TSC Console PC**.

3.2.3 LPT

1. Select the **LPT Port** and click **OK**.



3.3 Network

3.3.1 Before Connecting to the Network

To comply with the new European RED (Radio Equipment Directive) requirements, the Network Block must be disabled before the printer's first network connection.

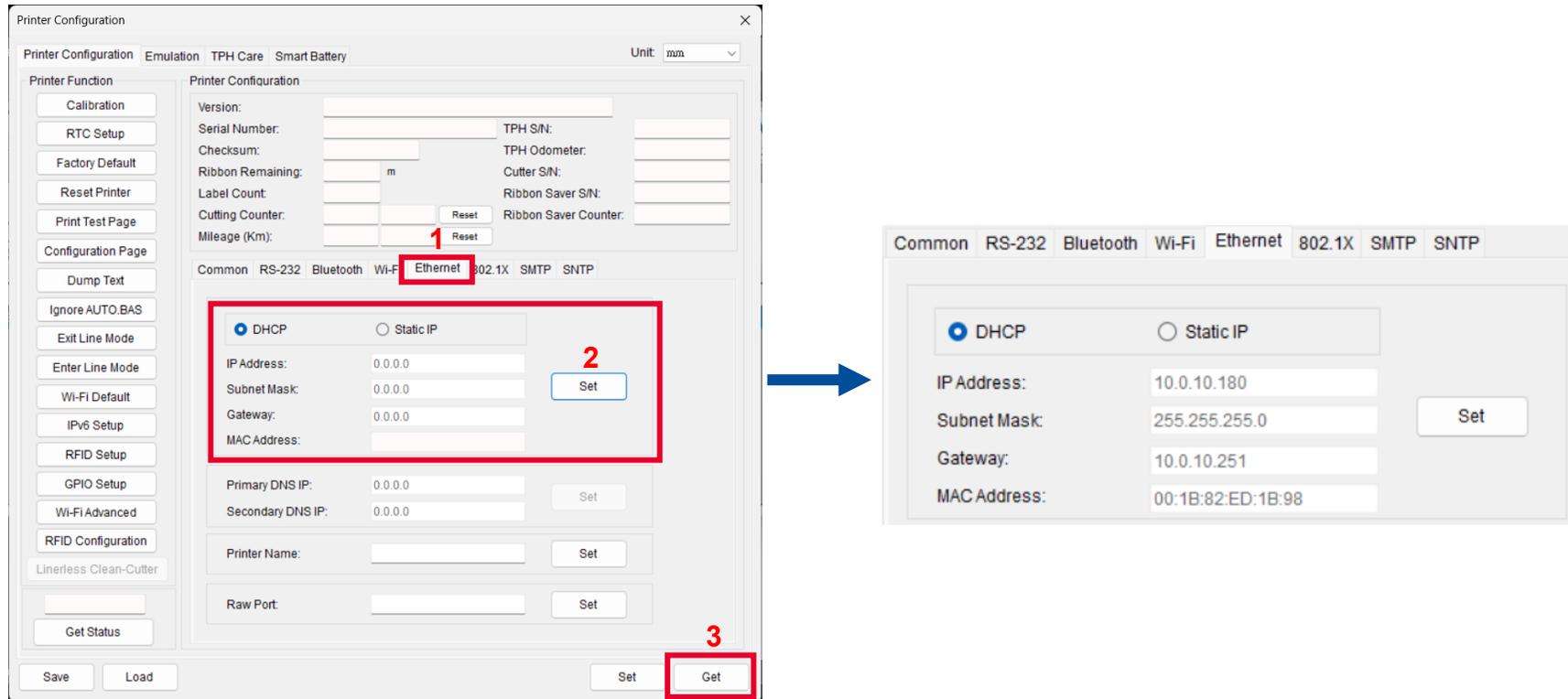
- **For USB setup (recommended in Europe):**
 1. Connect the printer via USB.
 2. Open **TSC Console** and go to **Functions > PRTSecure > Security Mode**.
 3. Set it to **“Standard”**.
- **For printers with LCD:**
 1. Go to **Menu > Advanced > PRTSecure**.
 2. Set Security Mode to **“Standard”**.

Note:

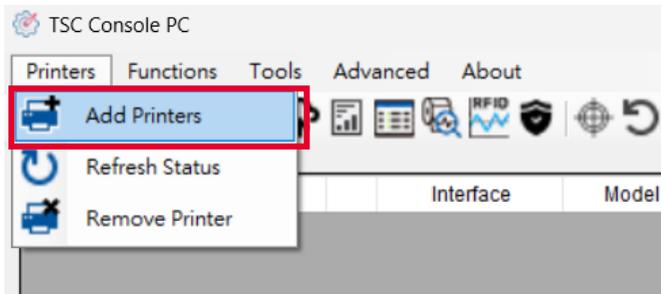
For more information, refer to the PRTSecure section. The PRTSecure feature is supported only with TSC Console version V3.4.0.5 or later.

3.3.2 Set Ethernet and Add to TSC Console PC Interface

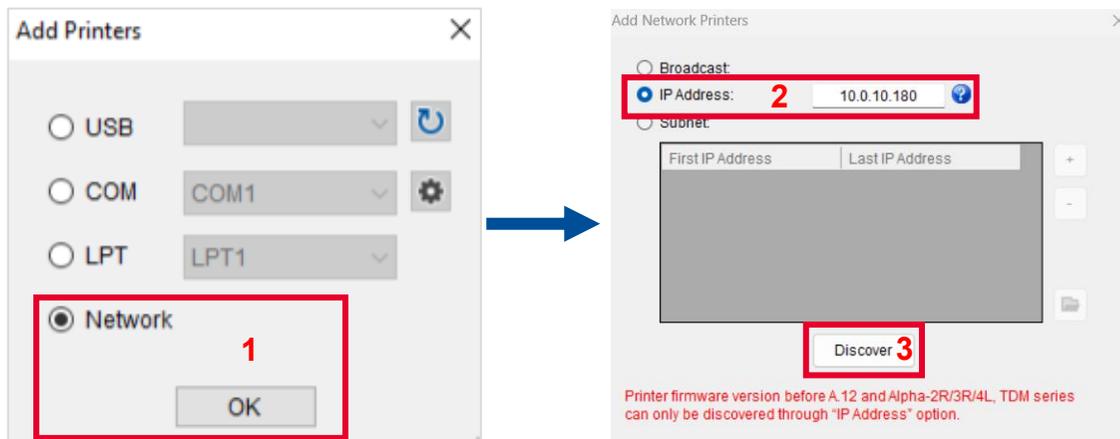
1. Use **USB** or **COM** to establish the interface on **TSC Console PC**.
2. Double click to enter the **Printer Configuration Page** > Click **Ethernet** tab > Set the **Ethernet** > When the setting is complete, click the **Set** button on the right. (For DHCP, press the **Get** button to check the **IP Address** after setup, or check on the printer LCD control panel.)



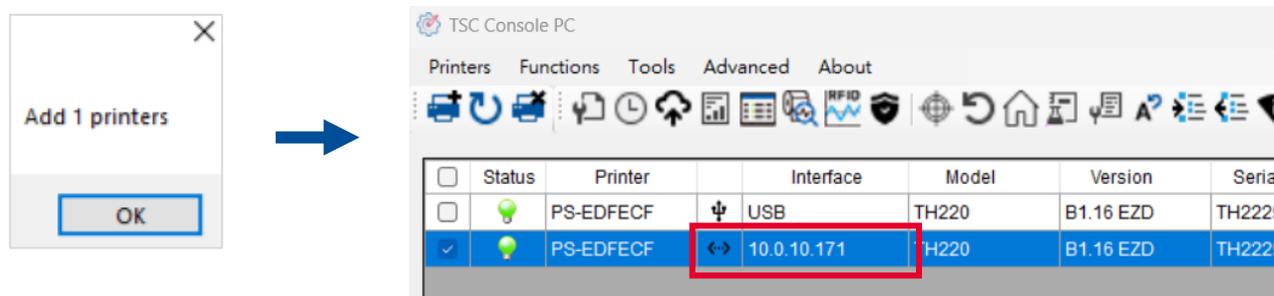
3. Return to **TSC Console** main page > Click **Add Printer** on the top left of the window.



4. Choose **Network** > Key in the **IP Address** > Click **Discover** to establish the Ethernet interface.

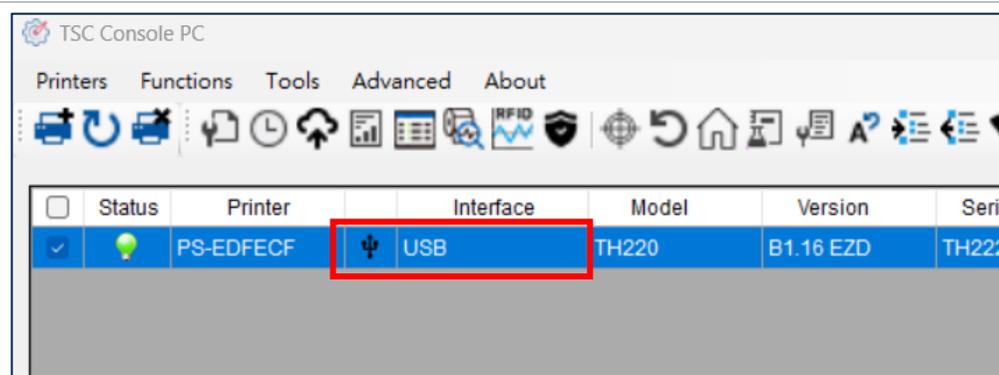


5. If the connection is successful, the Add Printer window will pop up > Click **OK** to close the window > The **TSC Console** will appear for printer that use the Ethernet interface.

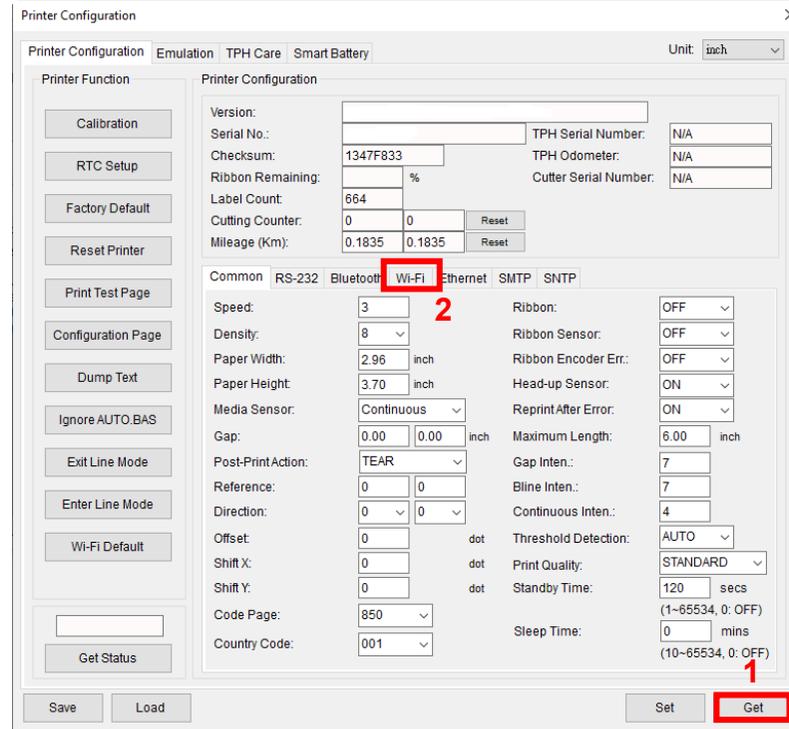


3.3.3 Set Wi-Fi and Add to TSC Console PC Interface

1. Use **USB** or **COM Port** to set up the interface.
2. Double click to enter the printer configuration page.



3. Click **Get** to receive printer's information.
4. Click **Wi-Fi** to the wi-fi setting page.



For WPA-Personal

- I. Fill-in the **SSID**.
- II. Select the Encryption option to **WPA-Personal**.
- III. Fill-in the Key.
- IV. Select **DHCP** to **ON**. (For **OFF** option, please fill-in the IP Address, Subnet Mask and Gateway)
- V. After setting, click the **Set** button.

Note:

Before setting, the entered field will be shown in yellow for reminding. On DHCP, user can change the printer name by another model name in "Printer Name" field.

User also can change the raw port in "Raw Port" field.

Common RS-232 Bluetooth Wi-Fi Ethernet SMTP SNTP

Built-in Wi-Fi Module

SSID: SSID_1

WLAN Encryption: WPA-Personal

Key: ●●●●

DHCP: ON

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Gateway:

Primary DNS IP:

Secondary DNS IP:

Raw Port: 9100

Printer Name: PS-FF153C

MAC Address: 00:1B:82:FF:15:3C

EAP Type:

Username:

Password:

File Name Browse

CA Certificate:

Client Certificate:

Private Key:

EAP-FAST PAC:

Wi-Fi Version: 3.7.1.0R6

RSSI: 0

Perform Wi-Fi default when using USB interface

Set Get

For WPA-Enterprise

- I. Fill-in the **SSID**.
- II. Select the Encryption option to **WPA-Enterprise**.
- III. Select DHCP to **ON** (For **OFF** option, please fill-in the IP Address, Subnet Mask and Gateway)
- IV. Select the **EAP Type** option. (For **EAP-TLS** option, please upload the CA and Key for mutual authentication, integrity-protected cipher suite negotiation, and key exchange between two endpoints.)
- V. After setting, click the **Set** button.

Note:

Before setting, the entered field will be shown in yellow for reminding. On DHCP, user can change the printer name by another model name in "Printer Name" field.

User also can change the raw port in "Raw Port" field.

Common RS-232 Bluetooth Wi-Fi Ethernet SMTP SNTP

Built-in Wi-Fi Module

SSID: SSID_2

WLAN Encryption: WPA-Enterprise

Key: ●●●●

DHCP: ON

IP Address:

Subnet Mask: 0.0.0.0

Gateway:

Primary DNS IP:

Secondary DNS IP:

Raw Port: 9100

Printer Name: PS-FF153C

MAC Address: 00:1B:82:FF:15:3C

EAP Type:

Username:

Password:

File Name Browse

CA Certificate:

Client Certificate:

Private Key:

EAP-FAST PAC:

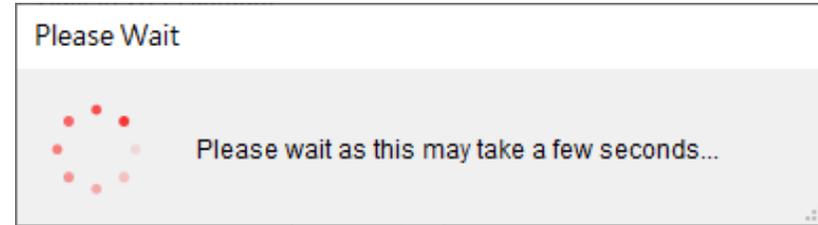
Wi-Fi Version: 3.7.1.0R6

RSSI: 0

Perform Wi-Fi default when using USB interface

Set Get

5. After clicking **Set** button, it'll pop-up the window tip as below shown.

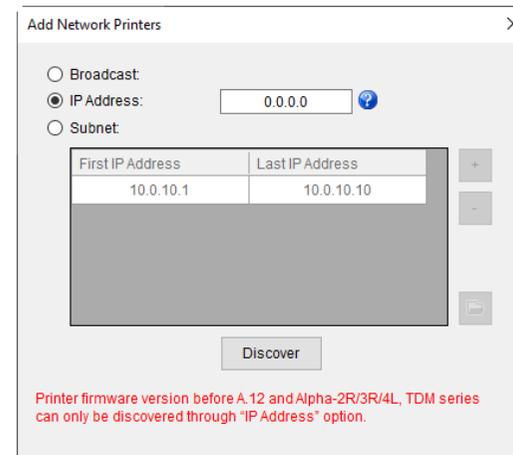


6. IP address will be shown in the "IP address" field and the Wi-Fi logo and IP address will be displayed on the LCD control panel.

Note:

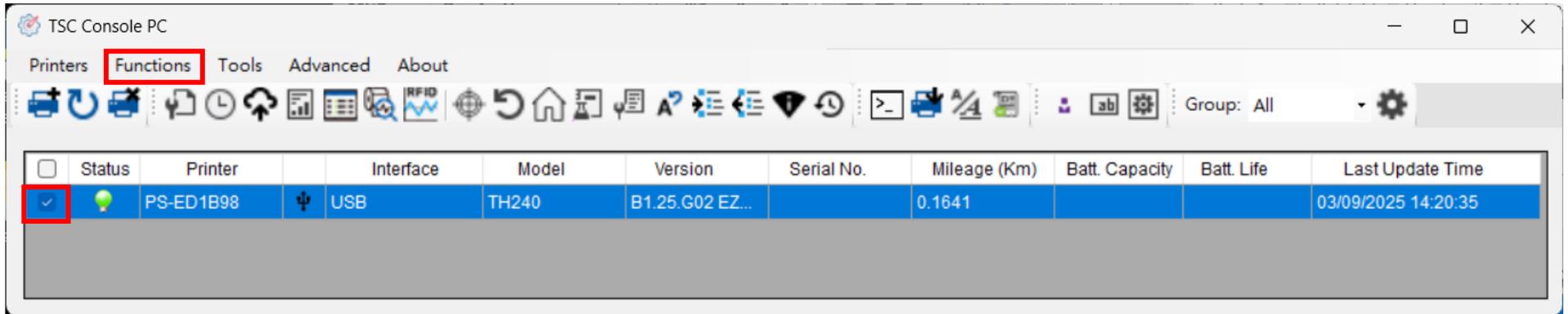
IP address should be shown within about 5 to 15 seconds after printer turn on. If not, please refer to steps below to initialize the printer Wi-Fi module settings then to setup it again.

7. Remove the cable between the computer and the printer.
8. Go to main page, click **Add Printer** to add the printer via **Network**.
9. Select the printer and enter the setting page by double clicking the printer.
10. Click the **Print Test Page** button to print the test page via Wi-Fi interface.

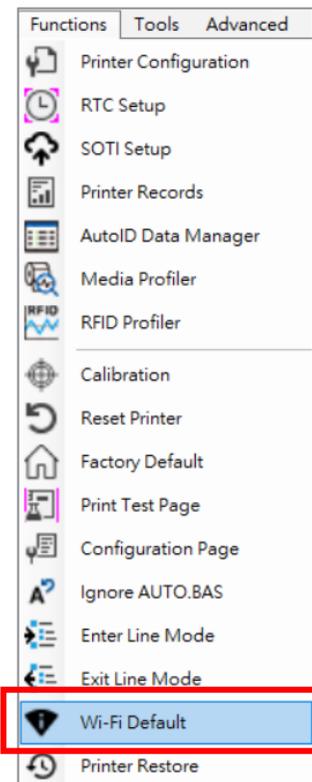


3.3.4 Initialize the Printer Wi-Fi Setting

1. Return to the main page of TSC Console. Select the printer and click **Functions** to expand the page.

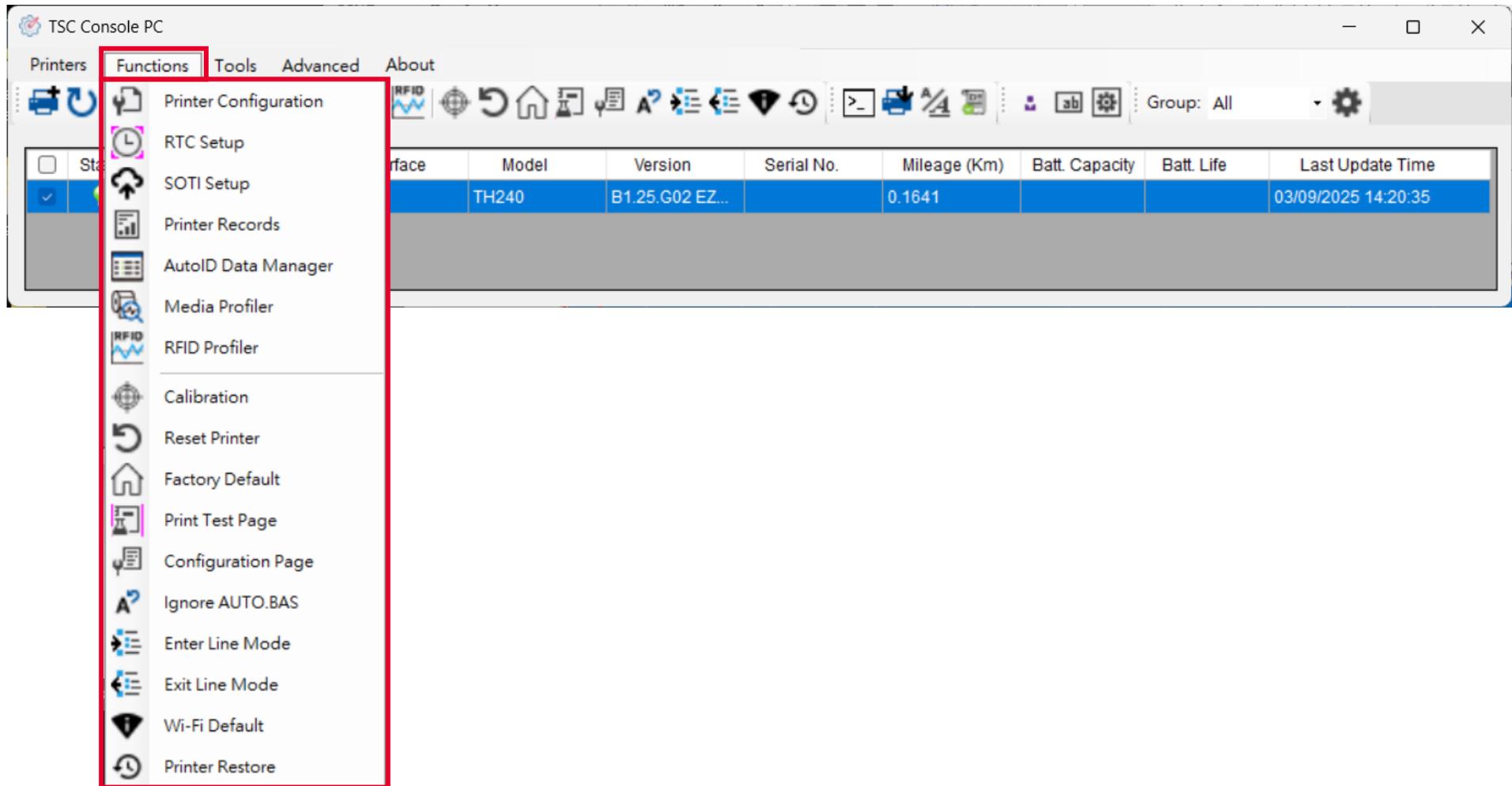


2. Click **Wi-Fi Default** to initialize the printer Wi-Fi module setting to factory default setting.



4. Function

Functions shows the settings and functions for the printer, users can access to the page by following below picture's instruction or **double clicking** the established printer in **TSC Console PC**.



4.1 Printer Configuration

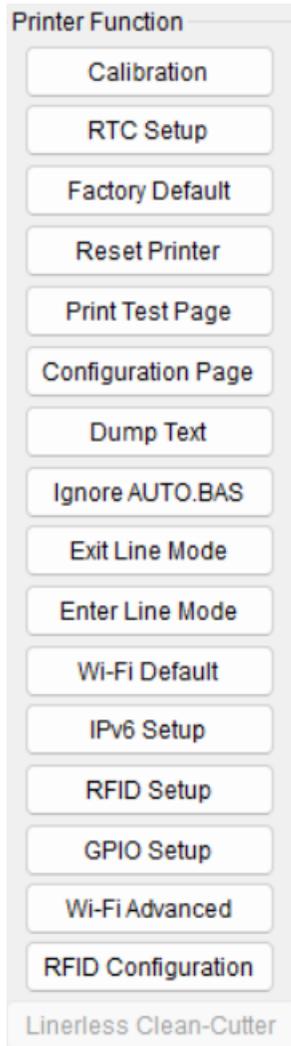
Printer Configuration contains most functions and setting to the printer, click **Function** on **TSC Console** main page, then click **Printer Configuration** to enter the page.

4.1.1 Printer Configuration Overview

The screenshot displays the 'Printer Configuration' web interface. It features a top navigation bar with tabs for 'Printer Configuration', 'Printer Function', 'Printer Information', 'Printer Setup', and 'Printer Status'. The 'Printer Configuration' tab is active, showing a 'Printer Information' section with fields for Version, Serial Number, Checksum, Ribbon Remaining, Label Count, Cutting Counter, Mileage (Km), TPH S/N, TPH Odometer, Cutter S/N, Ribbon Saver S/N, and Ribbon Saver Counter. Below this is the 'Printer Setup' section with various configuration options like Speed, Density, Paper Width, Paper Height, Media Sensor, Gap, Post-Print Action, Reference, Direction, Offset, Shift X, Shift Y, Vertical DPI, Code Page, Country Code, Ribbon, Ribbon Sensor, Ribbon Encoder Err., Ribbon Saver, Head-up Sensor, Reprint After Error, Maximum Length, Bline Inten., Continuous Inten., Threshold Detection, Print Quality, Standby Time, and Sleep Time. A 'Printer Function' sidebar on the left contains buttons for Calibration, RTC Setup, Factory Default, Reset Printer, Print Test Page, Configuration Page, Dump Text, Ignore AUTO-BAS, Exit Line Mode, Enter Line Mode, Wi-Fi Default, IPv6 Setup, RFID Setup, GPIO Setup, Wi-Fi Advanced, and RFID Configuration. A 'Get Status' button is also present. At the bottom, there are 'Save', 'Load', 'Set', and 'Get' buttons, along with a 'Change the Unit' button in the top right corner.

4.1.2 Printer Functions

Printer Function could be found in Printer Configuration. “Printer Function” will be shown on the left side of the window.



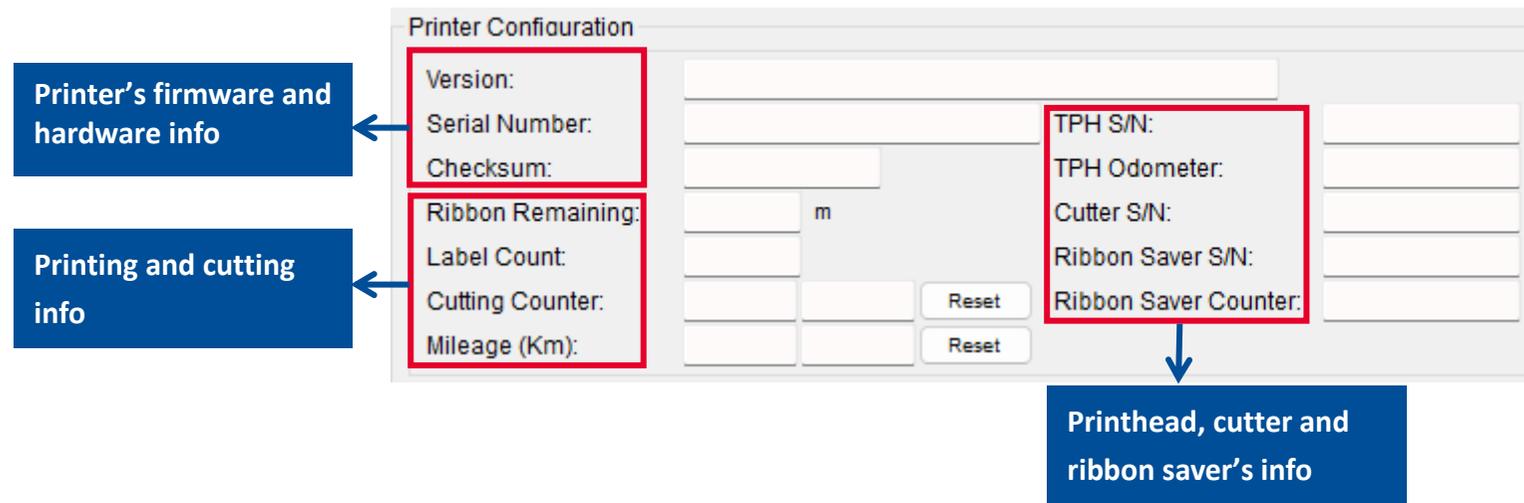
Functions	Description
Calibrate	Detect media types and the size of the label
RTC Setup	Synchronize printer with Real Time Clock on PC
Factory Default	Initialize the printer to default settings
Reset Printer	Reboot printer
Print Test Page	Print test page according to the specified label size and sensor type.
Configuration Page	Print printer configurations
Dump Text	Activate the printer to dump mode
Ignore AUTO.BAS	Ignore AUTO.BAS file when printer boot up
Exit Line Mode	Exit the line mode to page mode
Enter Line Mode	Leave page mode and enter line mode
Wi-Fi Default	Restore the Wi-Fi settings to defaults.
IPv6 Setup	Enter the IPv6 settings window to configure the settings
RFID Setup	Enter the RFID settings window to configure the settings
GPIO Setup	Enter the GPIO settings window to configure the settings
Wi-Fi Advanced	Enter the Wi-Fi module's Advanced Settings window to configure the settings
RFID Configuration	Enter the RFID configuration window to configure the settings
Linerless Clean-Cutter	Enter the Linerless Clean-Cutter window to set the linerless cutter for cleaning

Note: Please refer to [TSC RFID Manual](#) for more information. Alternatively, you can scan the QR code below to have access to the TSC RFID Manual.



4.1.3 Printer Information

Printer Information area allows users to check up printer's information.



Note:

The information sent back by the printer here will vary depending on the model, the data will be sent back only if this function is available.

4.1.4 Printer Setup - Common

Printer Information area allows users to check/ set the printer's settings.

The image shows a screenshot of a printer's configuration interface, specifically the 'Common' tab. The interface is divided into two main columns of settings. The left column includes Speed, Density, Paper Width, Paper Height, Media Sensor, Gap, Post-Print Action, Reference, Direction, Offset, Shift X, Shift Y, Code Page, and Country Code. The right column includes Ribbon, Ribbon Sensor, Ribbon Encoder Err., Ribbon Saver, Head-up Sensor, Reprint After Error, Maximum Length, Gap Inten., Bline Inten., Continuous Inten., Threshold Detection, Print Quality, Standby Time, and Sleep Time. Blue callout boxes with arrows point to specific settings, explaining their function. The 'Set' and 'Get' buttons are visible at the bottom.

Setting	Unit	Callout Description
Speed		Set printing speed and printing density
Density		Set printing speed and printing density
Paper Width	mm	Set media's size
Paper Height	mm	Set media's size
Media Sensor		Set media sensor and gap value
Gap	mm	Set media sensor and gap value
Post-Print Action		Set printer's action and direction
Reference		Set printer's action and direction
Direction		Set printer's action and direction
Offset	dot	Set printer's action and direction
Shift X	dot	Set printer's action and direction
Shift Y	dot	Set printer's action and direction
Code Page		Set the region code
Country Code		Set the region code
Ribbon		Set ribbon sensor
Ribbon Sensor		Set ribbon sensor
Ribbon Encoder Err.		Set printer behaviors
Ribbon Saver		Set printer behaviors
Head-up Sensor		Set printer behaviors
Reprint After Error		Set printer behaviors
Maximum Length	mm	Set printer behaviors
Gap Inten.		Set intensity of media sensor
Bline Inten.		Set intensity of media sensor
Continuous Inten.		Set intensity of media sensor
Threshold Detection		Exclusive settings for mobile printer
Print Quality		Exclusive settings for mobile printer
Standby Time	secs	Exclusive settings for mobile printer
Sleep Time	mins	Exclusive settings for mobile printer

4.1.5 Printer Setup - RS-232

RS-232 area provides the settings to set up the RS-232 interface.

The screenshot shows a configuration window with tabs for Common, RS-232, Bluetooth, WiFi, Ethernet, SMTP, and SNTP. The RS-232 tab is selected. It contains four settings, each with a dropdown menu: Baud Rate, Data Bits, Parity, and Stop Bit(s).

4.1.6 Printer Setup - Bluetooth

Bluetooth area provides users to check and set printers' Bluetooth settings.

The screenshot shows a configuration window with tabs for Common, RS-232, Bluetooth, Wi-Fi, Ethernet, SMTP, and SNTP. The Bluetooth tab is selected. It contains three main sections:

- Built-in Bluetooth Information:** A red box highlights this section, which includes fields for BT Name, BT Pair Mode (dropdown), BT Pin Code, BT MAC Address, and BT Version. A blue callout box labeled "Bluetooth information" points to this section.
- External Bluetooth Module:** A red box highlights this section, which contains a "Setup" button. A blue callout box labeled "Setup for external Bluetooth module" points to this section.
- XPico270 Module:** A red box highlights this section, which contains "Enable BT" and "Disable BT" buttons. A blue callout box labeled "Enable/Disable the Bluetooth on XPico WiFi+BT combo module" points to this section.

At the bottom of the window are "Set" and "Get" buttons.

4.1.7 Printer Setup - Wi-Fi

Wi-Fi area is used to check & set printers' Wi-Fi settings.

For setting up the Wi-Fi, please refer to [Set Wi-Fi and Add to TSC Console PC Interface](#).

Common RS-232 Bluetooth **Wi-Fi** Ethernet 802.1X SMTP SNMP

Wi-Fi Module

SSID: EAP Type:

WLAN Encryption: Username:

Key: Password:

DHCP: [Filename](#) [Browse](#)

IP Address: CA Certificate: ...

Subnet Mask: Client Certificate: ...

Gateway: Private Key: ...

Primary DNS IP: EAP-FAST PAC: ...

Secondary DNS IP: Fast BSS Transition (802.11r):

Raw Port:

Printer Name: Wi-Fi Version:

MAC Address: RSSI:

Perform Wi-Fi default when using USB interface

4.1.8 Printer Setup - Ethernet

Ethernet area is used to check & set printers' Ethernet settings.

For setting up the Ethernet, please refer to [Set Ethernet and Add to TSC Console PC Interface](#).

Common RS-232 Bluetooth Wi-Fi **Ethernet** 802.1X SMTP SNTP

DHCP Static IP

IP Address: 0.0.0.0
Subnet Mask: 0.0.0.0
Gateway: 0.0.0.0
MAC Address:

Set

Primary DNS IP: 0.0.0.0
Secondary DNS IP: 0.0.0.0

Set

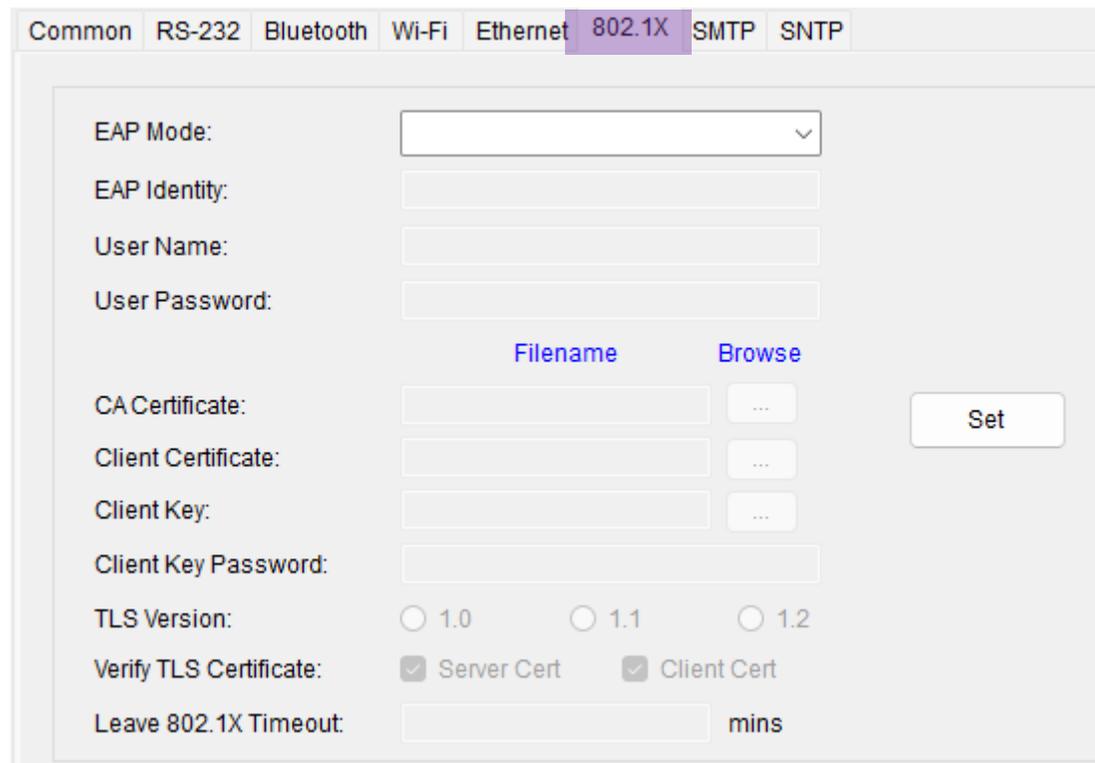
Printer Name: Set

Raw Port: Set

Set Get

4.1.9 Printer Setup – 802.1X (for Ethernet)

802.1X area is used to set printers' Ethernet 802.1X settings.



The screenshot shows a configuration window with tabs for Common, RS-232, Bluetooth, Wi-Fi, Ethernet, 802.1X, SMTP, and SNMP. The 802.1X tab is selected. The configuration fields are as follows:

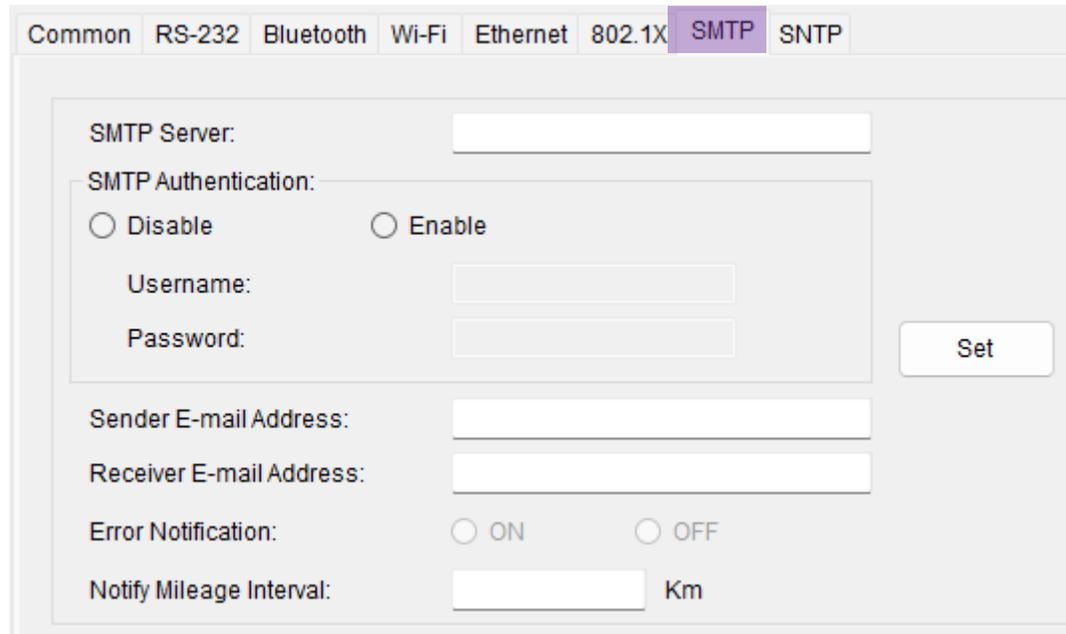
Field	Control
EAP Mode:	Dropdown menu
EAP Identity:	Text input field
User Name:	Text input field
User Password:	Text input field
CA Certificate:	Text input field with "Browse" button
Client Certificate:	Text input field with "Browse" button
Client Key:	Text input field with "Browse" button
Client Key Password:	Text input field
TLS Version:	Radio buttons for 1.0, 1.1, and 1.2
Verify TLS Certificate:	Checkboxes for Server Cert and Client Cert
Leave 802.1X Timeout:	Text input field followed by "mins"

A "Set" button is located on the right side of the configuration area.

4.1.10 Printer Setup - SMTP (Simple Mail Transfer Protocol)

When **SMTP** setup is complete, printer will automatically send receiver a mail of notification in case the printer is in error state.

Note: Only support firmware A2.13 or above version (Ethernet / Wi-Fi).



The screenshot shows the printer's configuration interface with the 'SMTP' tab selected. The interface includes the following fields and options:

- SMTP Server:** A text input field.
- SMTP Authentication:** A section containing two radio buttons: 'Disable' and 'Enable'.
- Username:** A text input field.
- Password:** A text input field.
- Sender E-mail Address:** A text input field.
- Receiver E-mail Address:** A text input field.
- Error Notification:** Two radio buttons: 'ON' and 'OFF'.
- Notify Mileage Interval:** A text input field followed by the unit 'Km'.

A 'Set' button is located to the right of the Username and Password fields.

4.1.11 Printer Setup - SNTP (Simple Network Time Protocol)

SNTP allows user sync printer system clock with ethernet timing.

Note: Only support firmware A2.13 or above version (Ethernet / Wi-Fi).

Common RS-232 Bluetooth Wi-Fi Ethernet 802.1X SMTP **SNTP**

Synchronize Clock: ON OFF

SNTP Server 1:

SNTP Server 2:

SNTP Server 3:

Update Interval: (Ethernet Only) Hour Minute

Time Zone:

Set

4.1.12 Features Tab - Emulation

Emulation provides ZPL and DPL language setting on TSC printers.

The image shows a software interface for printer configuration. At the top, there are four tabs: "Printer Configuration", "Emulation", "TPH Care", and "Smart Battery". The "Emulation" tab is selected and highlighted in orange. Below the tabs, there are two sub-sections for "Z" and "D" settings. The "Z" section is on the left, and the "D" section is on the right. A red box highlights the "D" tab in the "Z" section, with a blue arrow pointing to the "D" tab in the "D" section. The "Z" section contains the following settings:

- Darkness: 0 ~ 30
- Print Speed:
- Tear Off Pos: -120 ~ 120
- Print Mode: v
- Print Width: dot
- Control Prefix:
- Format Prefix:
- Delimiter Char:
- Media Power Up: v
- Head Close: v
- Label Top: -120 ~ 120
- Left Position: -9999 ~ 9999

The "D" section contains the following settings:

- Heat: 0 ~ 30
- Print Speed:
- Cut By Amount: 1 ~ 9999
- Format Attribute: v
- Barcode Magnification: 0 ~ 99
- Dot Width Multiplier: dot
- Dot Height Multiplier: dot
- Label Width: mm
- Present Sensor: v
- Cutter Equipped: v
- Control Codes: v
- Column Offset: mm
- Row Offset: mm

A "Set" button is located at the bottom right of the "D" section.

4.1.13 Features Tab – TPH Care

TPH Care provides users to check the condition of the print head and be able to set the dot failure threshold for indicating errors when the threshold is triggered.

This option is used to enable (ON)/ disable (OFF) the TPH care function.

This option is used to check the numbers of unhealthy TPH dot element.

This option is used to detect, the unhealthy TPH dot.

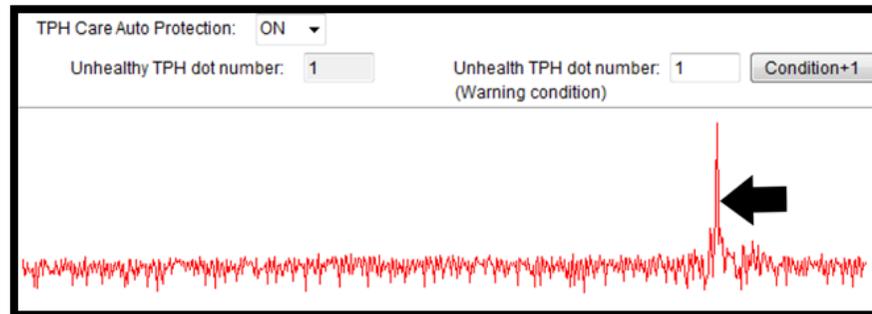
This option is used to save the image to .png file.

This option is used to set the threshold for unhealthy TPH dot number.

This image is used to check the relative position of the unhealthy TPH dot.

This option is used to print a TPH test image to check the TPH printing result.

1. Enable the TPH Care function. (Note: The default is disabled/OFF.) Then click "Get TPH care profile" button and a diagram will show in the area above.
2. If the profile is flat, it means that the print head is good. Check "Unhealthy TPH dot number". If the result is zero (0), that means the print head is good.
3. Bad dots are presented as a spike in the profile. The arrow in below profile indicates the presence of potentially damaged dots and printer will stop printing.



4.1.14 Features Tab – Smart Battery

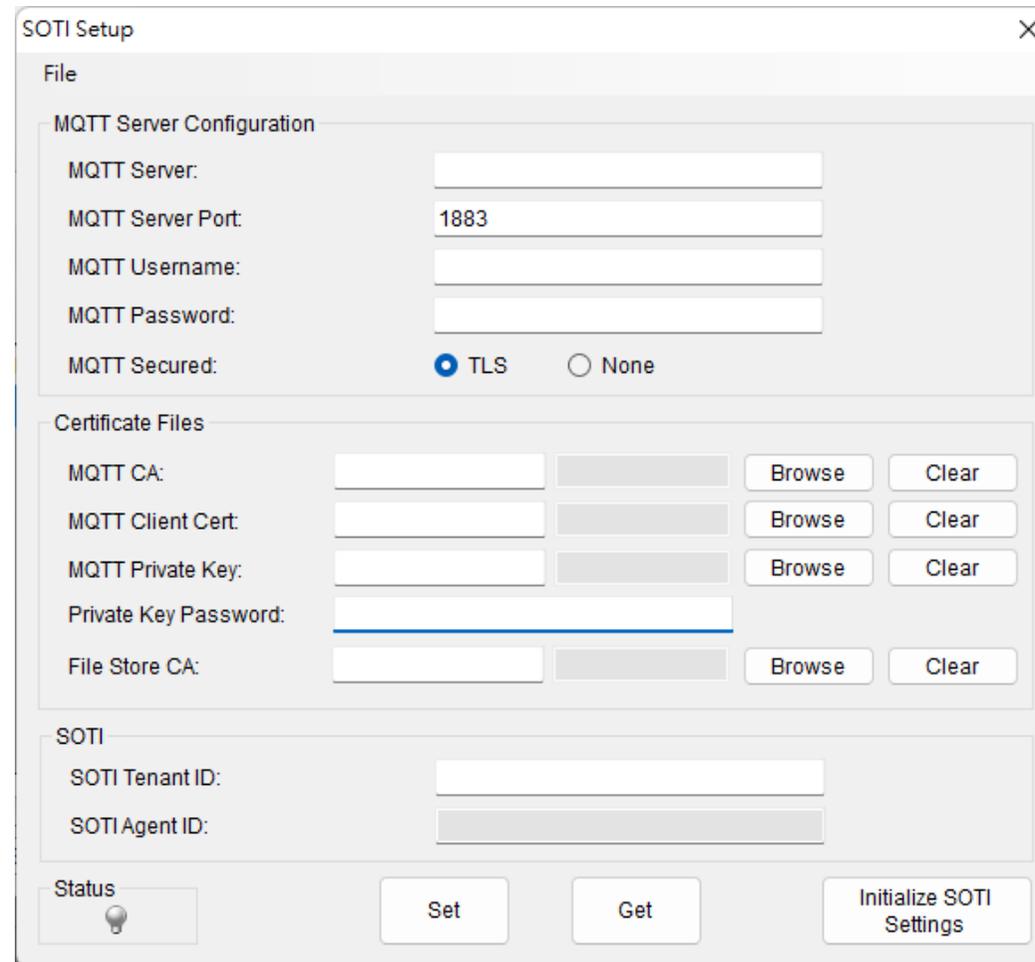
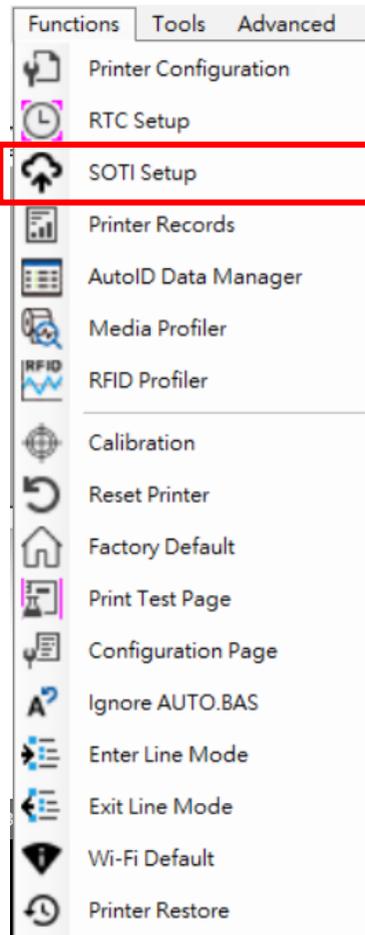
Smart Battery shows the battery information of the printer (**Mobile Printers only.**)

Printer Configuration	Emulation	TPH Care	Smart Battery
Battery Serial Number:	<input type="text"/>		
Current Voltage:	<input type="text"/>		V
Capacity:	<input type="text"/>		%
Temperature:	<input type="text"/>		°C
Discharged Times:	<input type="text"/>		times
Manufacture Date:	<input type="text"/>		
Healthy Status:	<input type="text"/>		

4.2 SOTI Setup

SOTI Setup could setup the required parameters for printers to work with **SOTI Connect**.

Note: Once the printer is connected to the SOTI, the bulb of the status would turn into green color.



4.3 Printer Records

Printer Records could check out the printer information, including raw data, life cycle, media usage, and TPH resistance profile. Follow below instruction to open the **Printer Records**:

Go to TSC Console main page > select the printers > click **Printer Records** in the Tool menu or right click on printer to find the option to enter in the **Printer Records** page.

The screenshot shows the 'Printer Records' window. At the top right, a blue box says 'Clear or export the data' with an arrow pointing to the 'Clear Records' and 'Export' buttons. On the left, a red box highlights the 'Name' dropdown menu containing 'PS-FF02BF', with an arrow pointing to a blue box labeled 'Filter by name'. Below the name, the 'Interface' is set to 'USB'. In the middle, a red box highlights the 'Raw Data' tab, with an arrow pointing to a blue box labeled 'Available information that can be checked'. The date range is set from '2022/ 1/ 1' to '2022/ 1/19'. Below the date range, there are controls for 'Per Page' (set to 100), 'Unit' (set to inch), and 'Hide Offline'. The main area is a table with the following data:

Time	Printer Name	Interface	Model Name	Status	IP Address	Firmware Ver
2022/1/19 2:04:34 PM	PS-FF02BF	USB	DA200	Ready	-	A2.12 EZD
2022/1/19 1:59:18 PM	PS-FF02BF	USB	DA200	Ready	-	A2.12 EZD
2022/1/19 1:54:02 PM	PS-FF02BF	USB	DA200	Ready	-	A2.12 EZD
2022/1/19 1:48:45 PM	PS-FF02BF				-	A2.12 EZD
2022/1/19 1:43:29 PM	PS-FF02BF				-	A2.12 EZD
2022/1/19 1:38:13 PM	PS-FF02BF	USB	DA200	Ready	-	A2.12 EZD
2022/1/19 1:32:57 PM	PS-FF02BF	USB	DA200	Ready	-	A2.12 EZD
2022/1/19 1:27:40 PM	PS-FF02BF	USB	DA200	Ready	-	A2.12 EZD

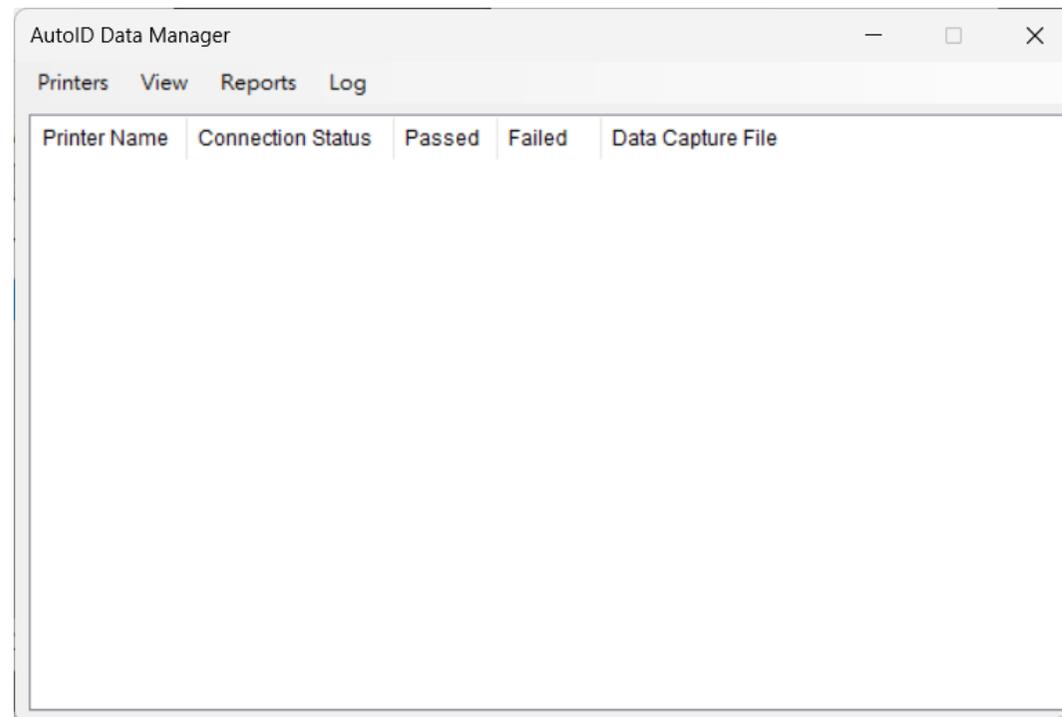
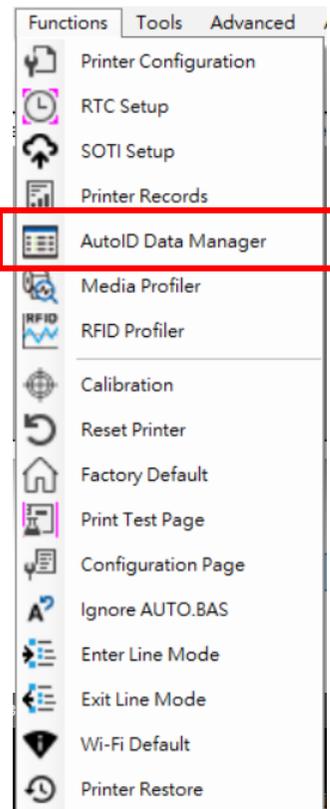
A blue box labeled 'Data information will display on this area' is overlaid on the table. At the bottom, there are navigation buttons and a page indicator '1 / 3'.

4.4 AutoID Data Manager

The **AutoID Data Manager** is an application that can collect EPC (electronic product code) telemetry data (stored on Radio Frequency Identification [RFID] tags) from RFID enabled printers.

With this telemetry data (EPC), you can create compelling audits of label and RFID tag quality. (support csv/txt file formats)

Please refer to [TSC RFID Manual](#) for more information. Alternatively, you can scan the QR code below to have access to the TSC RFID Manual.



4.5 Media Profiler

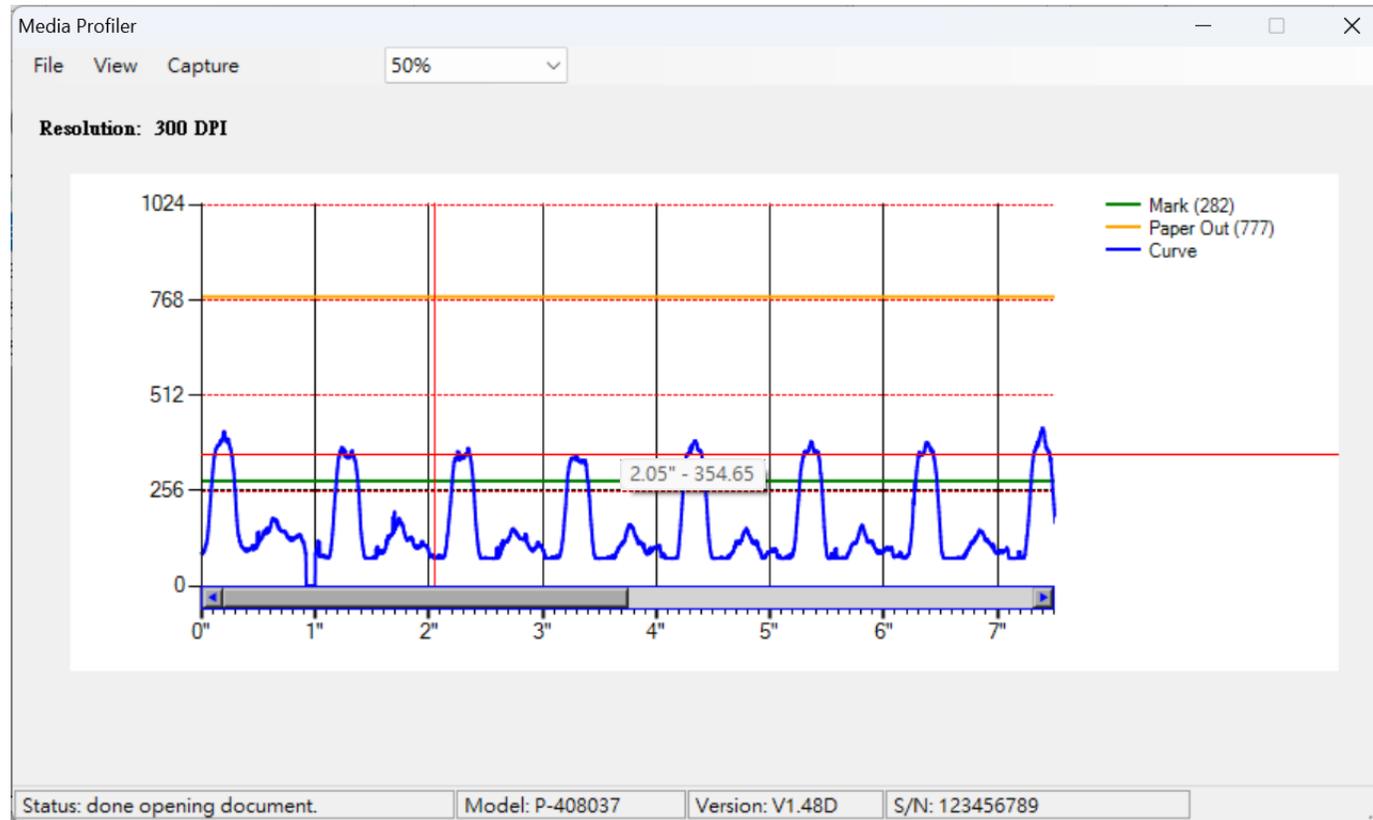
This **Media Profiler** provides a means to analyze media sensing problems. You can use it on labels that are difficult to profile using the standard printer profiling method. If necessary, you can capture, document, and send this information to professional service centers for further analysis. The Media Profiler application is only available for thermal printers.

Follow below instruction:

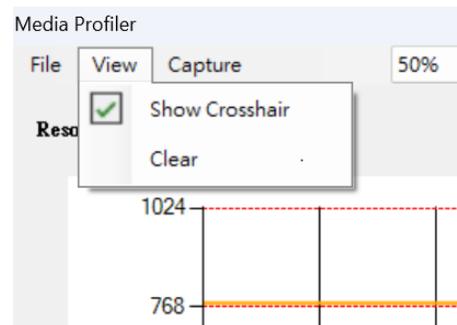
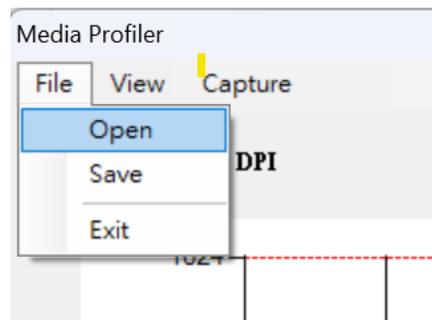
Go to TSC Console PC main page > select the printer > click **Media Profiler** in the Functions menu > **Capture** > **Start** > Set the "how long the profiler test will run" in **Run For** > OK.

The image shows a screenshot of the TSC Console PC interface. On the left, a vertical menu lists various functions, with 'Media Profiler' highlighted by a red box. The main window displays the 'Media Profiler' application, which has a 'Capture' menu and a 'Start' button. Below the 'Start' button, the 'Resolution' is set to '100%'. A 'Start Media Profiling' dialog box is open, showing the 'Profile Source' as 'PS-ED1B98'. The 'Print Profile' checkbox is checked, and the 'Run For' field is set to '10' inches. A blue callout box points to the 'Print Profile' checkbox with the text: 'If you check the Print Profile checkbox, the profiler data will also print on the installed media.' Another blue callout box points to the 'Run For' field with the text: 'The length must be between 6 - 100 inches'. The dialog box also shows 'OK' and 'Cancel' buttons.

Media Profiler View:



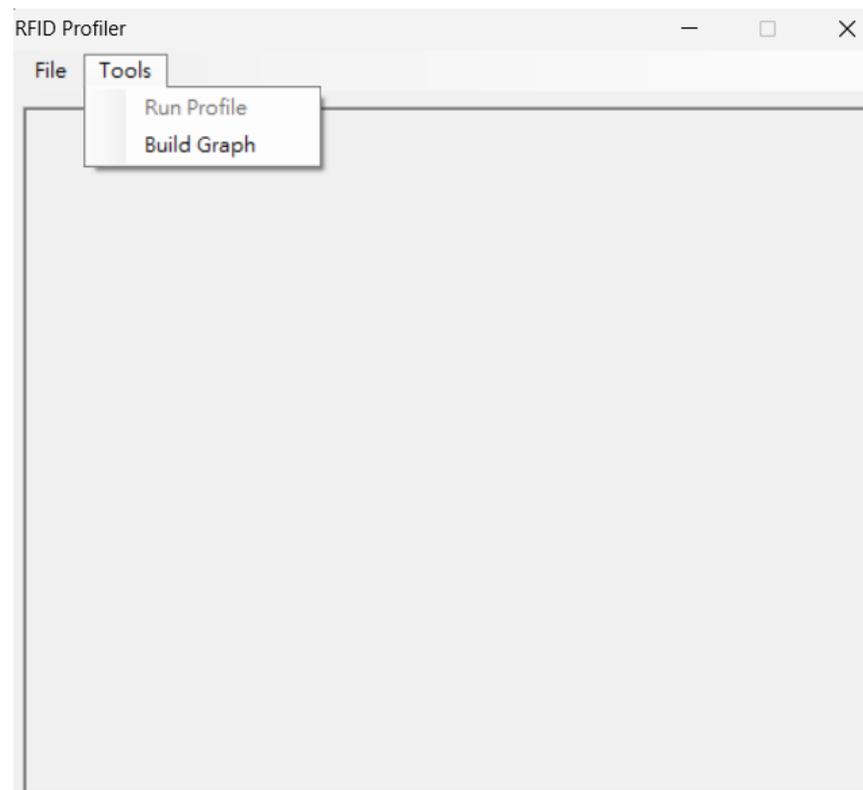
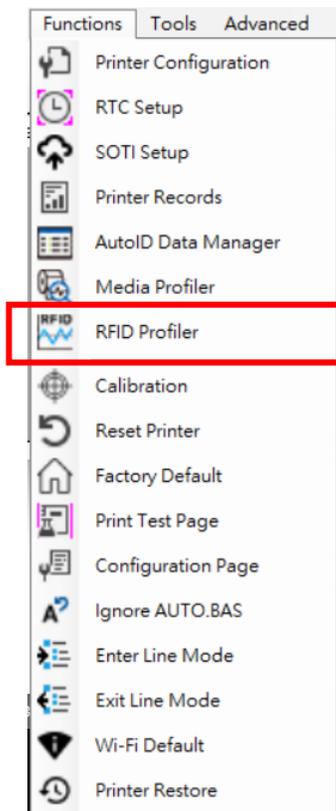
In addition, data save/load functions and the Show Crosshair function are provided, which can display coordinate values (enabled by default).



4.6 RFID Profiler

The RFID Profiler is a diagnostic tool that allows the user to profile RFID tags and diagnose any issues that may occur with those tags. This application works with the printer to create a tag profile that allows you to analyze successful write/read powers at each position on the tag. With the RFID Profiler you can execute the RFID/Media profile tests, capture profile data, save profiles for later viewing, and open existing profiles in the form of a graph.

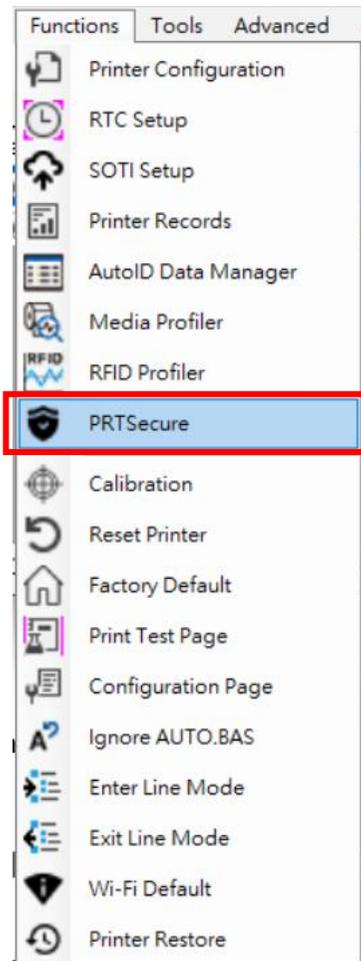
Please refer to [TSC RFID Manual](#) for more information. Alternatively, you can scan the QR code below to have access to the TSC RFID Manual.



4.7 PRTSecure

According to the new European RED (Radio Equipment Directive) requirements, this product must have the "Network Block" disabled before its first network connection. Therefore, if you purchased this printer in Europe, please first connect it via USB and change the setting to **"Standard"** in **Functions > PRTSecure > Security Mode** before connecting it to the network. (This PRTSecure feature is supported only with TSC Console version V3.4.0.5 or later.)

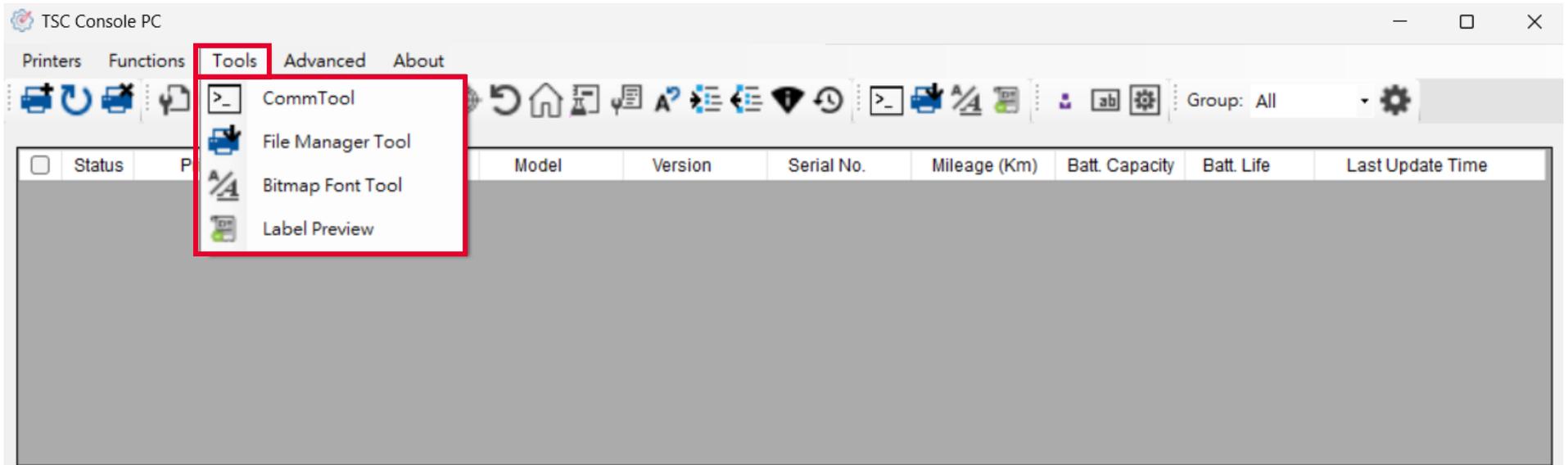
If you want to use **Strict Mode** to connect to the network, please refer to the [TSC Network Security Manual](#) for more details. Click the document link or scan the QR code below to access the manual.



Item	Description	Default
PRTSecure	Set up the Printer Secure. <ul style="list-style-type: none"> • Strict: Enable this security setting - Network setup via network is blocked • Standard: Disable this security setting - Normal network setup allowed 	Europe Unit: Strict (Network Block enabled)

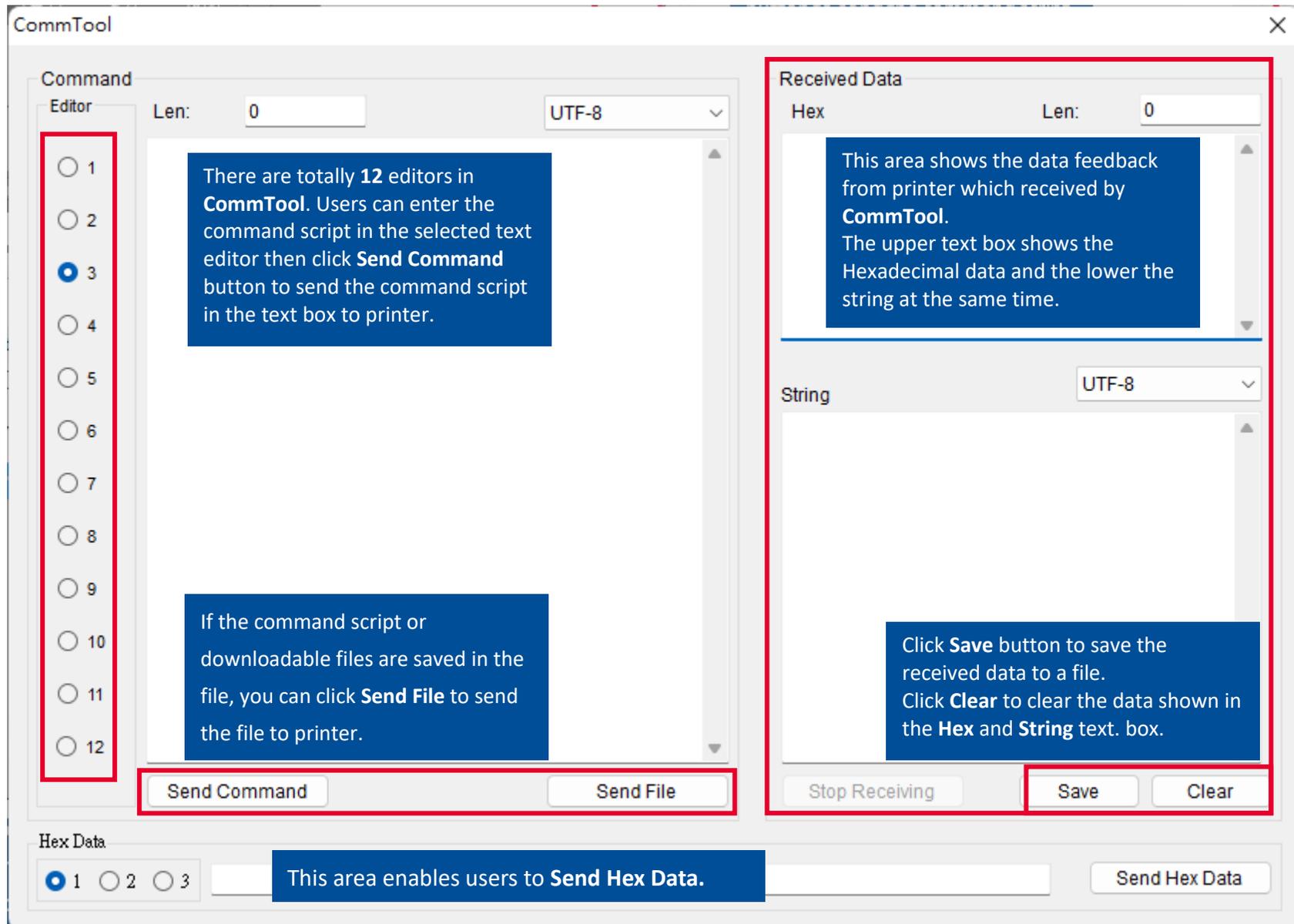
5. Tools

In this section, users are able to set up the printer by **Comm Tool**, or download and edit the files by **File Manager** and **Bitmap Font Manager**.



5.1 Comm Tool

CommTool supports programming languages and the hex data commands.



5.2 File Manager Tool

File Manager helps users download files and delete files from printers' memory.

- **File Download** shows the interface for selecting file types, filename and download destination.
- **File Information** indicates downloaded files and available memory, deleting files in the selected memory device.

The screenshot displays the 'File Manager Tool' window, which is divided into two main sections: 'File Download' and 'File Information'. Both section titles are highlighted with red boxes.

File Download Section:

- File Type:** A dropdown menu with a 'Browse' button next to it.
- Filename:** A text input field.
- File Size:** A text input field followed by the label 'Bytes'.
- Memory Device:** A dropdown menu currently set to 'FLASH'.
- Save to file:** An unchecked checkbox.
- Download:** A button at the bottom of the section.

File Information Section:

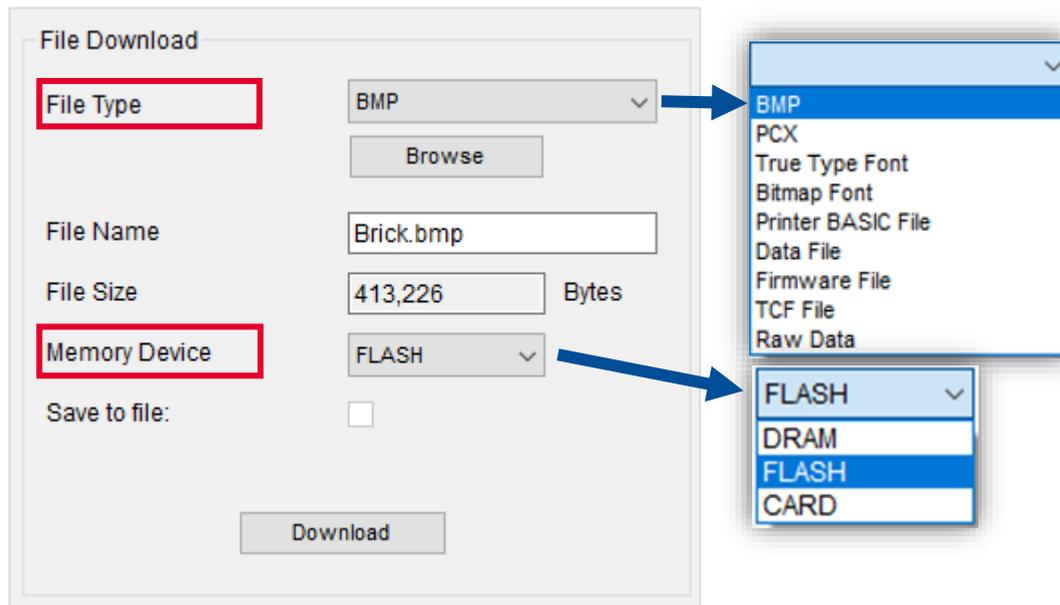
- Printer:** A dropdown menu showing 'PS-FF2323'.
- Memory Device:** Radio buttons for 'DRAM', 'FLASH' (which is selected), 'CARD', and 'USB'.
- Physical Space:** A text input field followed by 'KB'.
- Free Space:** A text input field followed by 'KB'.
- Remove:** A button.
- Get:** A button.
- Format:** A button.

A large empty rectangular area is present below the 'Memory Device' radio buttons, likely intended for displaying a list of files.

5.2.1 Download Files

Below steps will demonstrate how to download the files to the printer:

1. Choose the **File Type**.
2. Select **Browse** to find the file.
3. Specify the **Memory Device** to be stored with.
4. Import file to printer by clicking **Download**.



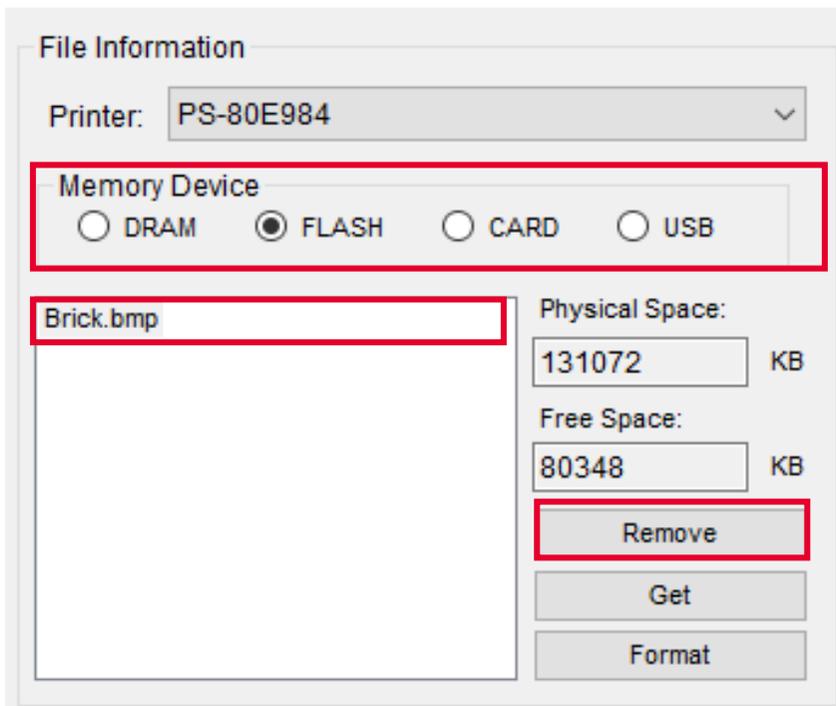
Note:

- BPM, PCX, True Type Font, Bitmap Font, Printer BASIC File, and Data File will automatically generate the header and save to specified memory device through File Manager before downloading.
- Enable Save to File could save the file to memory device as well.

5.2.2 Manage the Storage

Below steps will demonstrate how to manage the storage from the printer:

1. Specify the **Memory Device** and click **Get**.
2. Delete the file by clicking **Remove**.
3. Click **Format** to clean the memory.

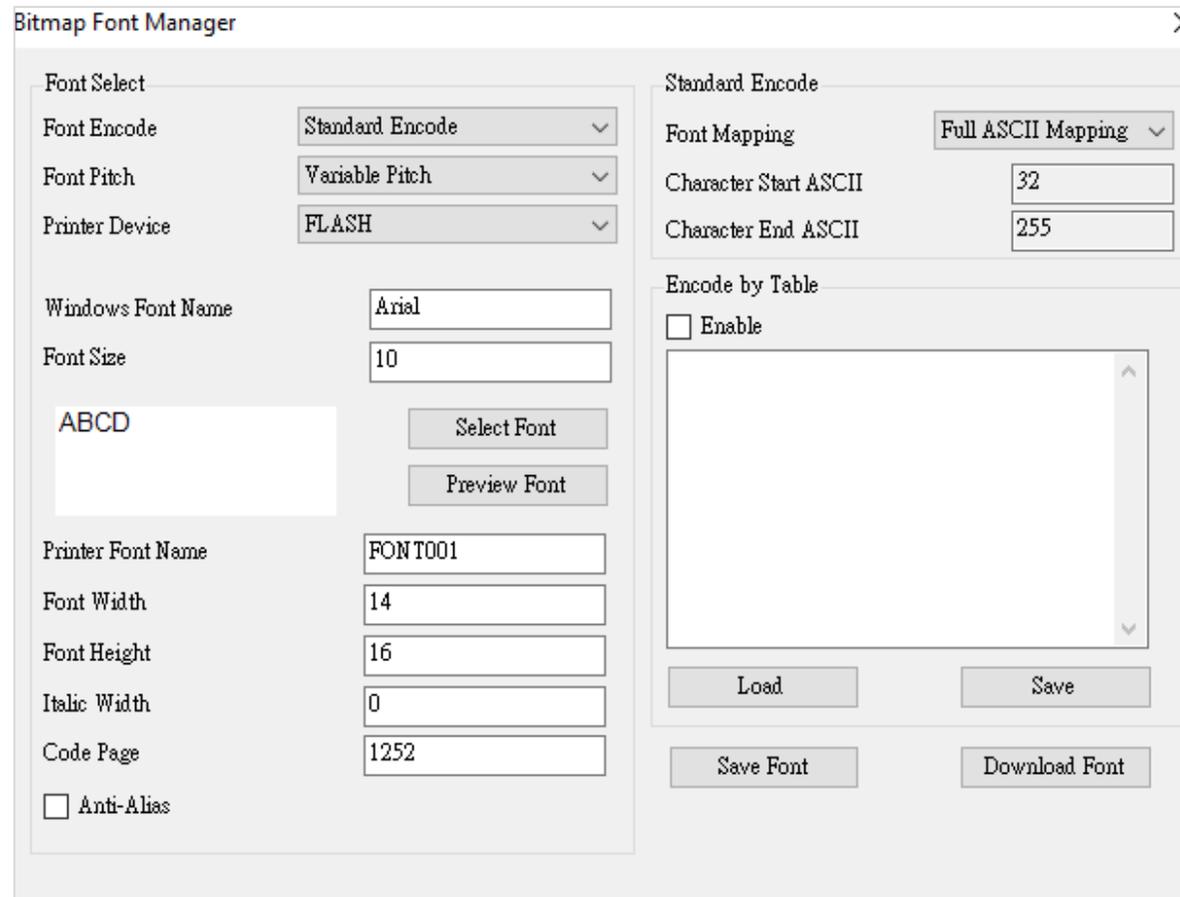


The screenshot shows a 'File Information' window for printer PS-80E984. The 'Memory Device' section is highlighted with a red box, showing radio buttons for DRAM, FLASH (selected), CARD, and USB. Below this, a file named 'Brick.bmp' is listed in a table, also highlighted with a red box. To the right of the file list, the 'Physical Space' is 131072 KB and 'Free Space' is 80348 KB. The 'Remove' button is highlighted with a red box, along with 'Get' and 'Format' buttons below it.

File Name	Physical Space	Free Space
Brick.bmp	131072 KB	80348 KB

5.3 Bitmap Font Manager

Bitmap Font Manager could convert the selected TTF font into printer format bitmap font. Both fixed pitch and variable pitch bitmap font are supported.



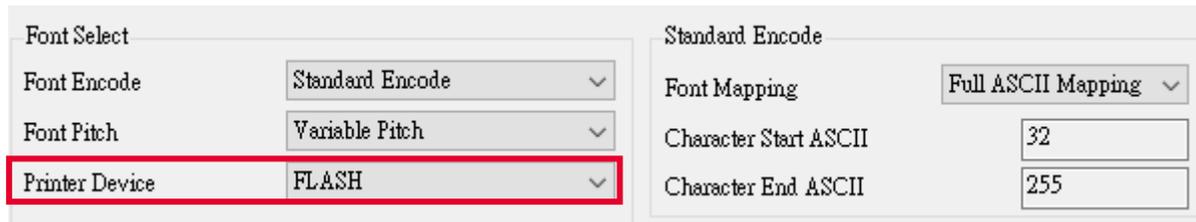
The screenshot shows the 'Bitmap Font Manager' application window. It is divided into several sections for configuring font conversion settings.

- Font Select:** Includes dropdown menus for 'Font Encode' (Standard Encode), 'Font Pitch' (Variable Pitch), and 'Printer Device' (FLASH).
- Windows Font Name:** A text input field containing 'Arial'.
- Font Size:** A text input field containing '10'.
- Preview:** A text area showing 'ABCD' in the selected font style, with 'Select Font' and 'Preview Font' buttons below it.
- Printer Font Name:** A text input field containing 'FONT001'.
- Font Width:** A text input field containing '14'.
- Font Height:** A text input field containing '16'.
- Italic Width:** A text input field containing '0'.
- Code Page:** A text input field containing '1252'.
- Anti-Alias:** An unchecked checkbox.
- Standard Encode:** Includes a 'Font Mapping' dropdown (Full ASCII Mapping), and text input fields for 'Character Start ASCII' (32) and 'Character End ASCII' (255).
- Encode by Table:** An unchecked checkbox labeled 'Enable' above a large empty text area.
- Buttons:** 'Load', 'Save', 'Save Font', and 'Download Font' buttons are located at the bottom right.

5.3.1 Download Fonts to Printer

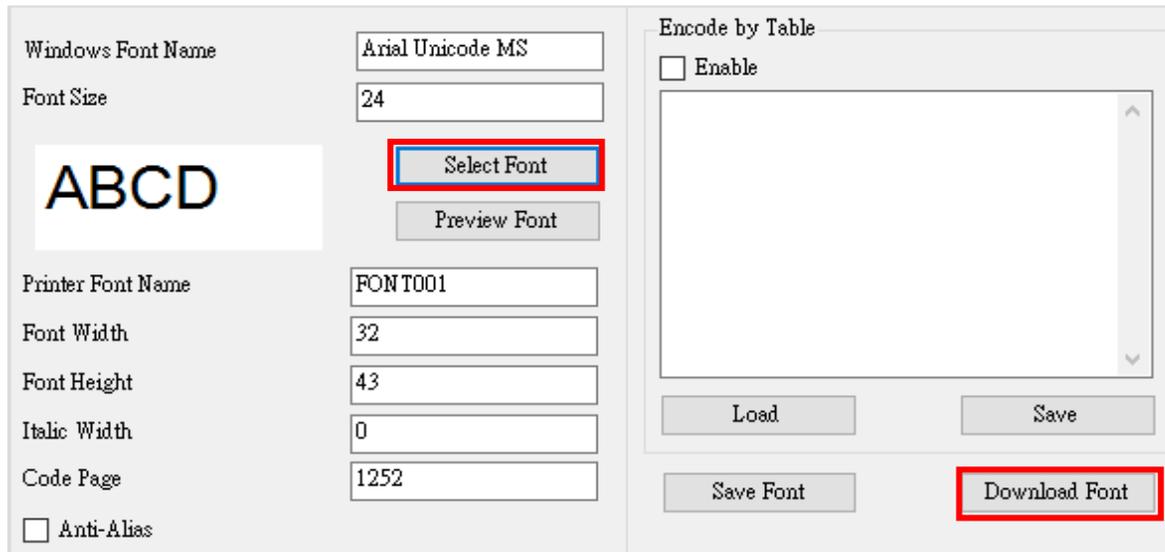
Below steps will demonstrate how to download fonts to the printer:

1. Set up font setting and **Printer Device**.



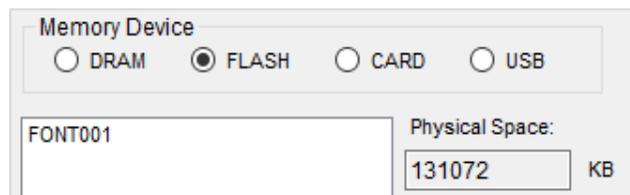
The screenshot shows a configuration window with two main sections. The left section, titled 'Font Select', contains four dropdown menus: 'Font Encode' (Standard Encode), 'Font Pitch' (Variable Pitch), and 'Printer Device' (FLASH, highlighted with a red box). The right section, titled 'Standard Encode', contains a 'Font Mapping' dropdown (Full ASCII Mapping) and two text input fields: 'Character Start ASCII' (32) and 'Character End ASCII' (255).

2. Select Font and click **Download Font** to finish settings.



The screenshot shows a font configuration window. On the left, there are input fields for 'Windows Font Name' (Arial Unicode MS), 'Font Size' (24), 'Printer Font Name' (FONT001), 'Font Width' (32), 'Font Height' (43), 'Italic Width' (0), and 'Code Page' (1252). There is also an 'Anti-Alias' checkbox. A preview of the letters 'ABCD' is shown. A 'Select Font' button is highlighted with a red box. On the right, there is an 'Encode by Table' section with an 'Enable' checkbox and a large empty table area. Below the table are 'Load' and 'Save' buttons. At the bottom, there are 'Save Font' and 'Download Font' buttons, with the latter highlighted by a red box.

3. Check **File Manager**.

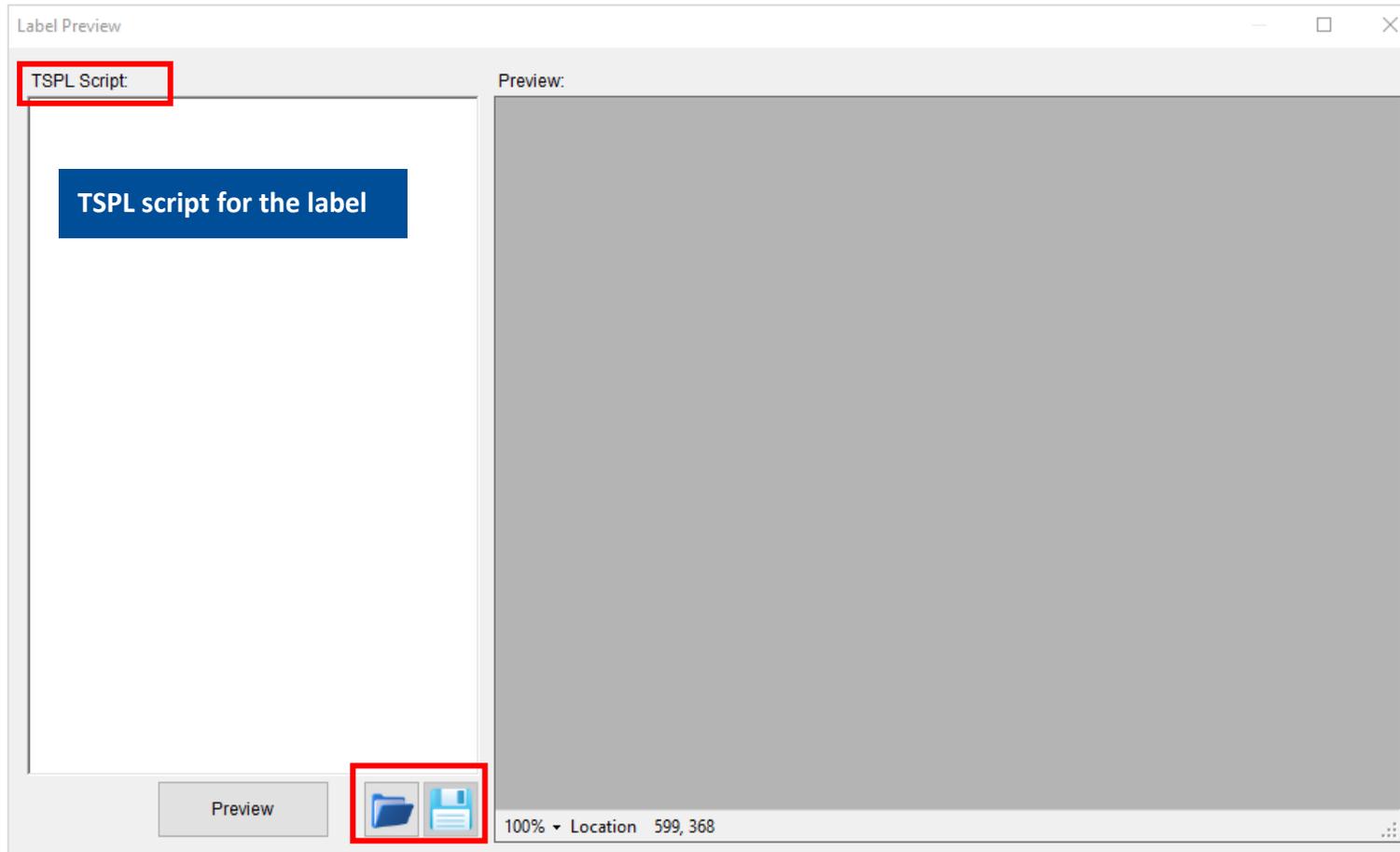


The screenshot shows a 'File Manager' window. At the top, there is a 'Memory Device' section with four radio buttons: 'DRAM', 'FLASH' (selected), 'CARD', and 'USB'. Below this, there is a text input field containing 'FONT001' and a 'Physical Space:' section with a text input field containing '131072' and the unit 'KB'.

5.4 Label Preview

Label Preview enables user to preview the label by TSPL command or loading the file.

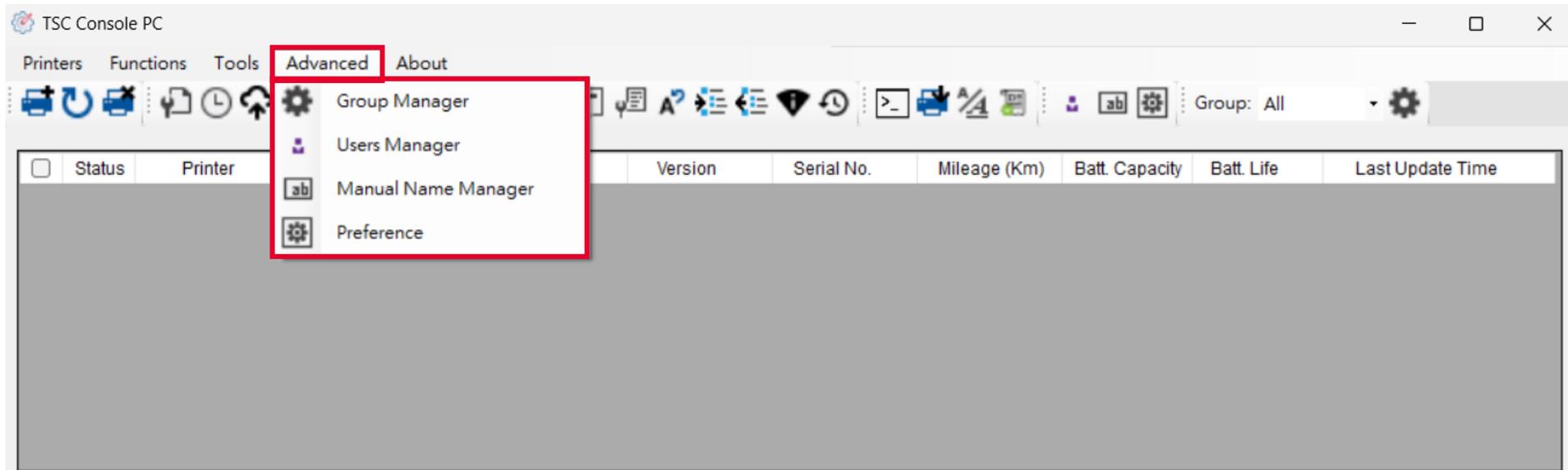
Note: This function is only supported after firmware version 2.13



Load the file / Save TSPL script

6. Advanced

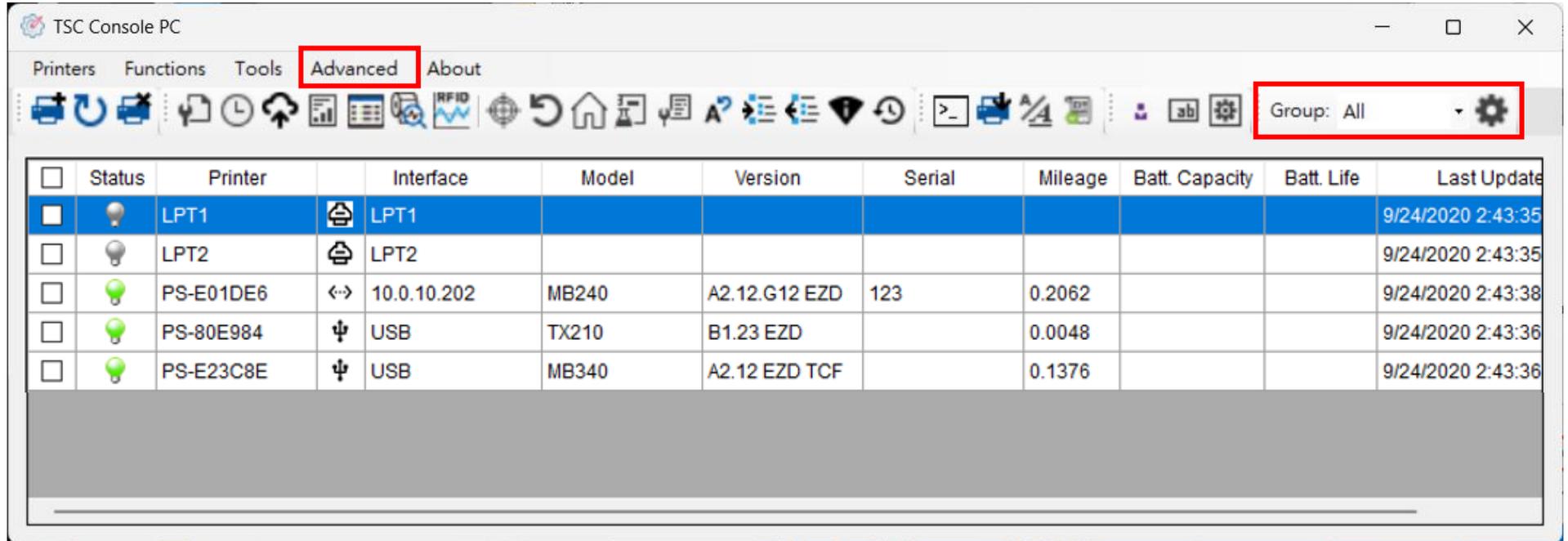
In **Advanced** section, users are able to set the group setting, set the password and alert, and adjust preference through TSC console to the printer.



6.1 Group Manager

Use **Group Manager** to select and filter the certain interface to make it easier to setup printers.

Click **Advanced** to access **Group Manager** or click on the **Quick Access Icon** as below.

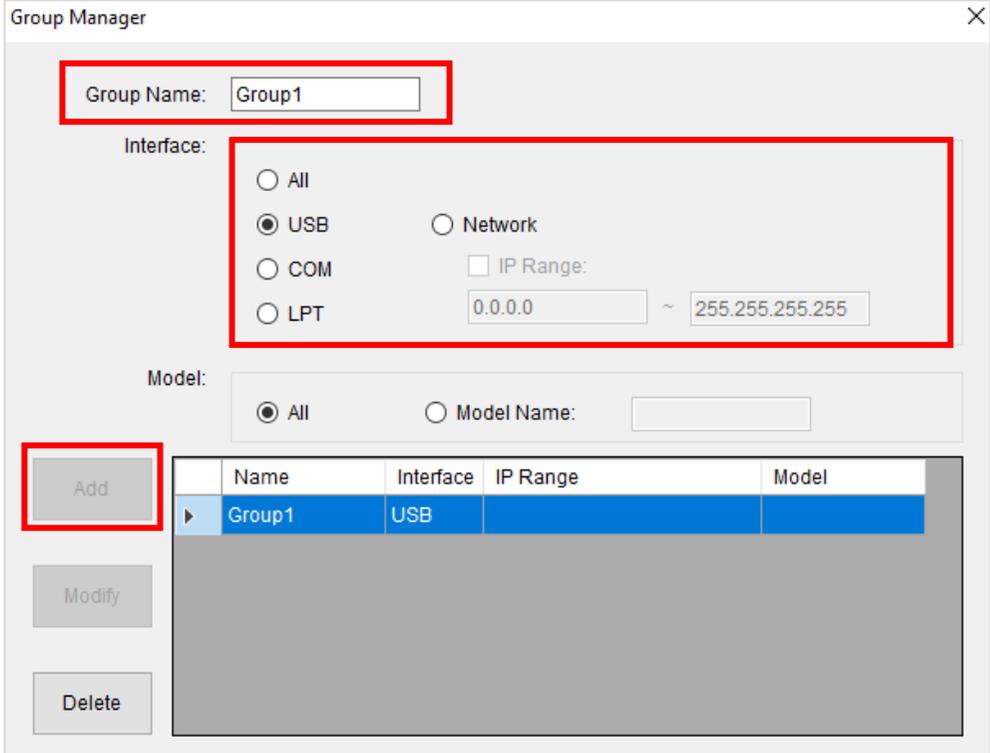


The screenshot shows the 'TSC Console PC' application window. The 'Advanced' tab is selected in the top menu. A toolbar contains various icons, and a 'Group: All' dropdown menu is highlighted with a red box. Below the toolbar is a table listing printer details.

<input type="checkbox"/>	Status	Printer	Interface	Model	Version	Serial	Mileage	Batt. Capacity	Batt. Life	Last Update
<input type="checkbox"/>		LPT1	LPT1							9/24/2020 2:43:35
<input type="checkbox"/>		LPT2	LPT2							9/24/2020 2:43:35
<input type="checkbox"/>		PS-E01DE6	10.0.10.202	MB240	A2.12.G12 EZD	123	0.2062			9/24/2020 2:43:38
<input type="checkbox"/>		PS-80E984	USB	TX210	B1.23 EZD		0.0048			9/24/2020 2:43:36
<input type="checkbox"/>		PS-E23C8E	USB	MB340	A2.12 EZD TCF		0.1376			9/24/2020 2:43:36

6.1.1 Group the Certain Interface

1. Enter the Group Manager. 
2. Type the Group Name.
3. Select the Interface.
4. Click Add to complete setting.
5. Back to interface and select Group.



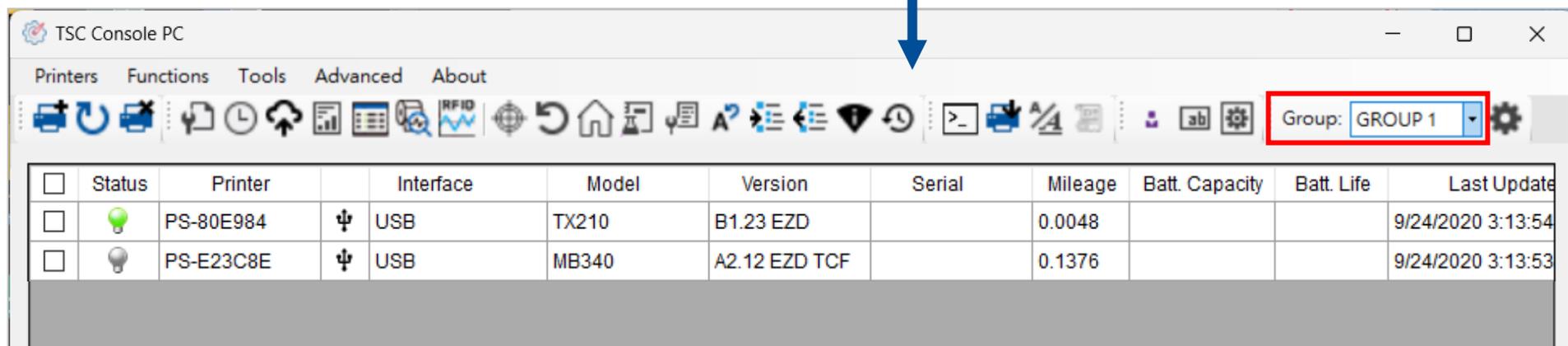
The Group Manager dialog box is shown with the following settings:

- Group Name: Group1
- Interface: USB (selected), Network (unselected), COM (unselected), LPT (unselected). IP Range: 0.0.0.0 ~ 255.255.255.255
- Model: All (selected), Model Name: (empty)

The Add button is highlighted in red. Below the settings is a table with the following data:

Name	Interface	IP Range	Model
Group1	USB		

Buttons for Modify and Delete are also visible.



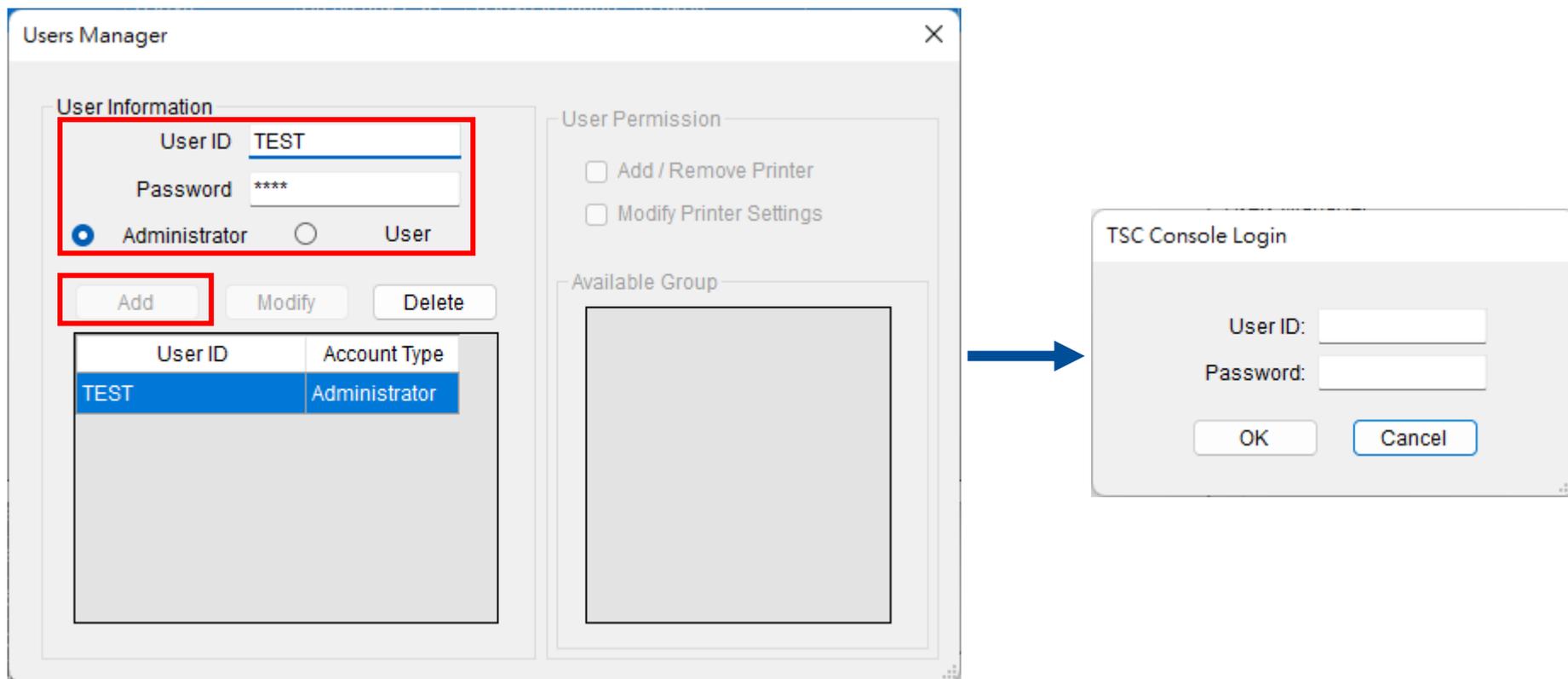
The TSC Console PC interface shows the Group Manager settings applied. The Group dropdown menu is set to GROUP 1. The main table displays the following data:

Status	Printer	Interface	Model	Version	Serial	Mileage	Batt. Capacity	Batt. Life	Last Update
<input type="checkbox"/>	PS-80E984	USB	TX210	B1.23 EZD		0.0048			9/24/2020 3:13:54
<input type="checkbox"/>	PS-E23C8E	USB	MB340	A2.12 EZD TCF		0.1376			9/24/2020 3:13:53

6.2 Users Manager

This function allows user to set the password on **TSC Console PC** for protecting printers' setting.

1. Enter the **User ID** and **Password**.
2. Click **Add** to complete setup and **TSC Console PC** will restart.



6.3 Manual Name Manager

Manual Name Manager provides the function which could help users modify printers' name making it more recognizable.

- Edit the manual name by using **Batch Modification** or **double click** the **Manual Name Column**

Manual Name Manager

Batch Modification

Prefix String: Starting Number:

Printer Name ▲	Model	Interface	Manual Name (Editable)
PS-80E984		USB	A
PS-E01DE6		10.0.10.202	B

OK

Manual Name (Editable)

- Printer_0
- Printer_1

6.4 Preference

Preference provide users functions to adjust system settings and languages.

The image shows a 'Preference' dialog box with the following sections and controls:

- Run at Windows Startup:** On/Off: OFF (dropdown)
- Show Offline Printer:** On/Off: ON (dropdown)
- Command Port:** Setup (button)
- Auto Refresh Status:** On/Off: ON (dropdown), Time Interval: 5 min (dropdown)
- Auto Renew IP Address:** On/Off: ON (dropdown), Subnet: Setup (button)
- Mainview Data Field:**
 - Model Name
 - Firmware Version
 - Serial Number
 - Printed Mileage
 - Smart Battery Capacity
 - Warning Threshold: 20 %
 - Smart Battery Life
 - Last Update Time
- Language:** English (dropdown)

Buttons: OK, Cancel

7. Revision History

Date	Content	Editor
2024/7/2	<ul style="list-style-type: none">• Update the document layout	Camille Pao
2025/9/3	<ul style="list-style-type: none">• Update TSC Console to TSC Console PC• Update Liability Statement• Add RFID info.• Add AutoID Data Manager, Media Profiler and RFID Profiler sections	Camille Pao
2025/11/10	<ul style="list-style-type: none">• Add PRTSecure section• Add the chapter "Before Connecting to the Network" to the Network section	Camille Pao



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