



Printer Utility Operation Manual

Ver:2.0

Contents

1. Start the PrinterUtility.....	2
2. Function items.....	2
3. Function Description	3
(1) Port Settings	3
1-1 USB Setting.....	3
1-2 RS232 Setting	3
1-3 Ethernet	4
1-3-1 main window.....	4
1-3-2 Search net printer window.....	5
(2) Printer Information.....	7
(3) Printer Configuration.....	8
3-1 Printer Setup	8
3-2 Gap Sensor Setup	11
3-3 Ethernet Setup	13
3-4 Setting File (Save and read the general settings of the printer)	15
(4) Printer Function	17
4-1 Factory Default.....	17
4-2 Print Test Page	17
4-3 RTC Setup.....	17
(5) Command Tool	18
5-1 Send Command.....	18
5-2 Send File	18
(6) Unit Setting	19
(7) Language.....	23
(8) About.....	24
(9) Exit.....	25

1. Start the PrinterUtility

Printer Utility is an integrated tool software that helps users query printer settings and status, change printer-related settings, and send commands or files to the printer.

Double-click the Printer Utility icon  Printer Utility.exe to launch this software.

2. Function items

- | | | |
|---------------------------|------------------|----------|
| (1) Port Settings | (5) Command Tool | (9) Exit |
| (2) Printer Information | (6) Unit Setting | |
| (3) Printer Configuration | (7) Language | |
| (4) Printer Function | (8) About | |



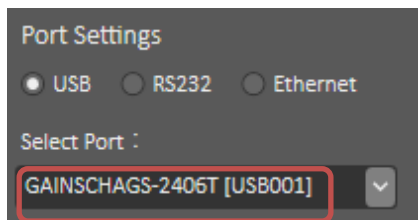
3. Function Description

(1) Port Settings

At present, the USB、RS232 and Ethernet communication interface is provided.

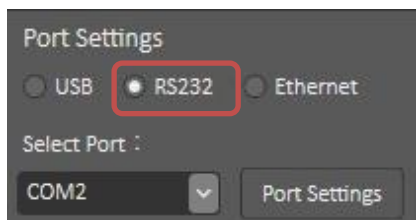
1-1 USB Setting

After turning on the printer, click ☒ USB in the communication interface, and the successfully connected printer model will automatically appear in the drop-down menu below.

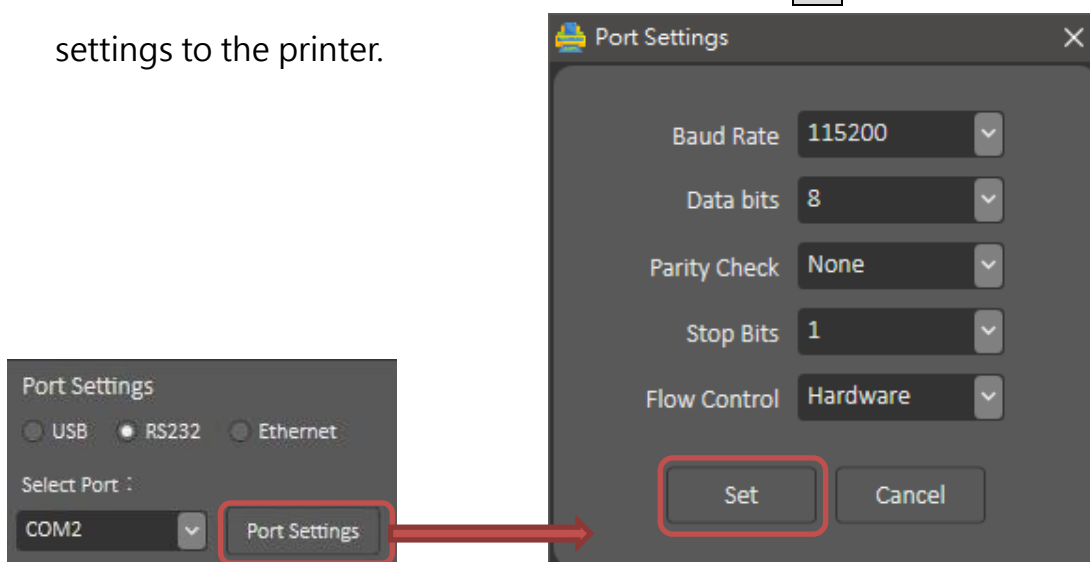


1-2 RS232 Setting

1. After turning on the printer, click ☒ RS232 in the communication interface and select the port from the drop-down menu below.



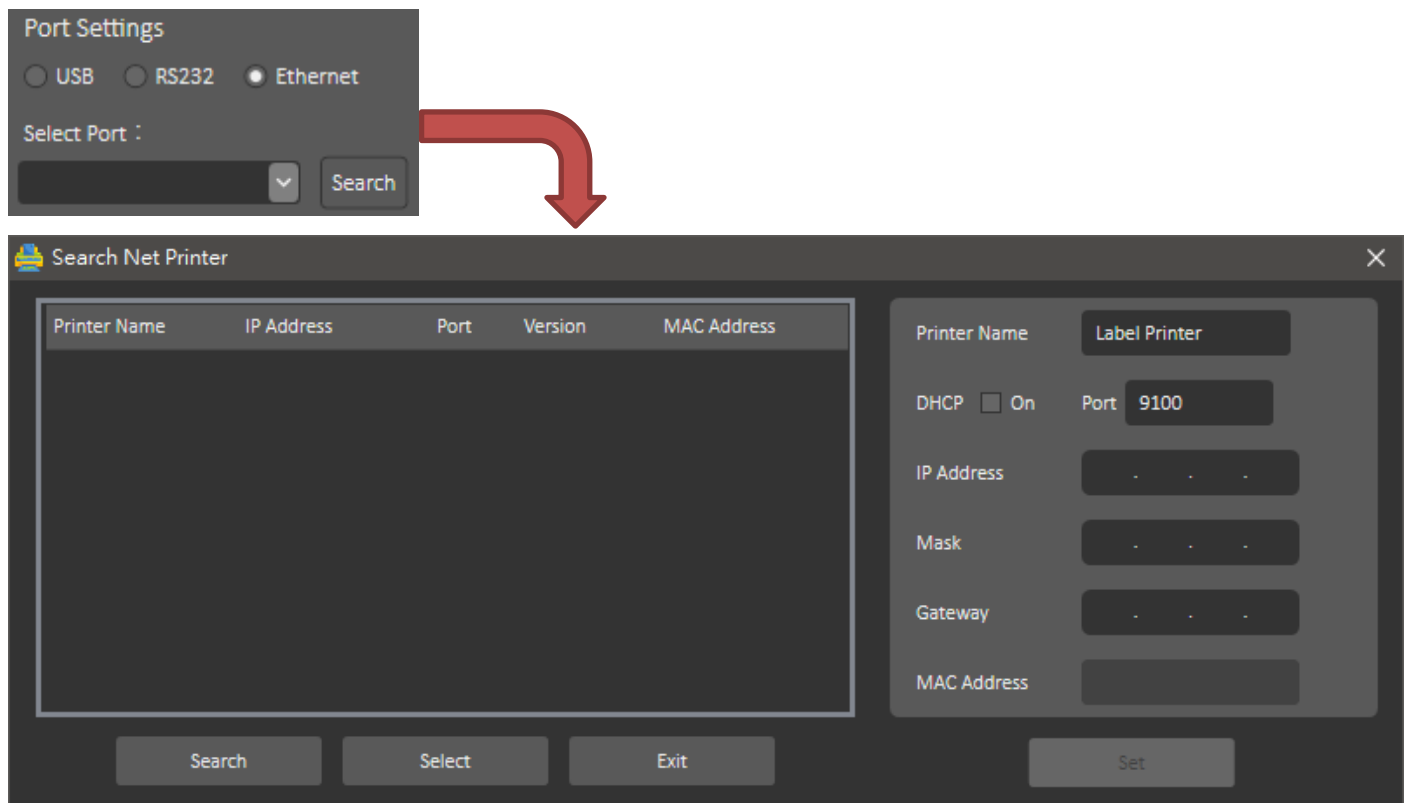
2. Click the button in the communication interface, it will automatically bring out the currently connected RS232 transmission channel setting information. You can set the baud rate, data bits, parity check, stop bits, and flow control of the currently connected RS232 transmission channel. Click the button to complete the RS232 settings to the printer.



1-3 Ethernet

1-3-1 main window

1. Port Settings => **Ethernet** => click the **Search** button => the screen for searching the net printer pops up.

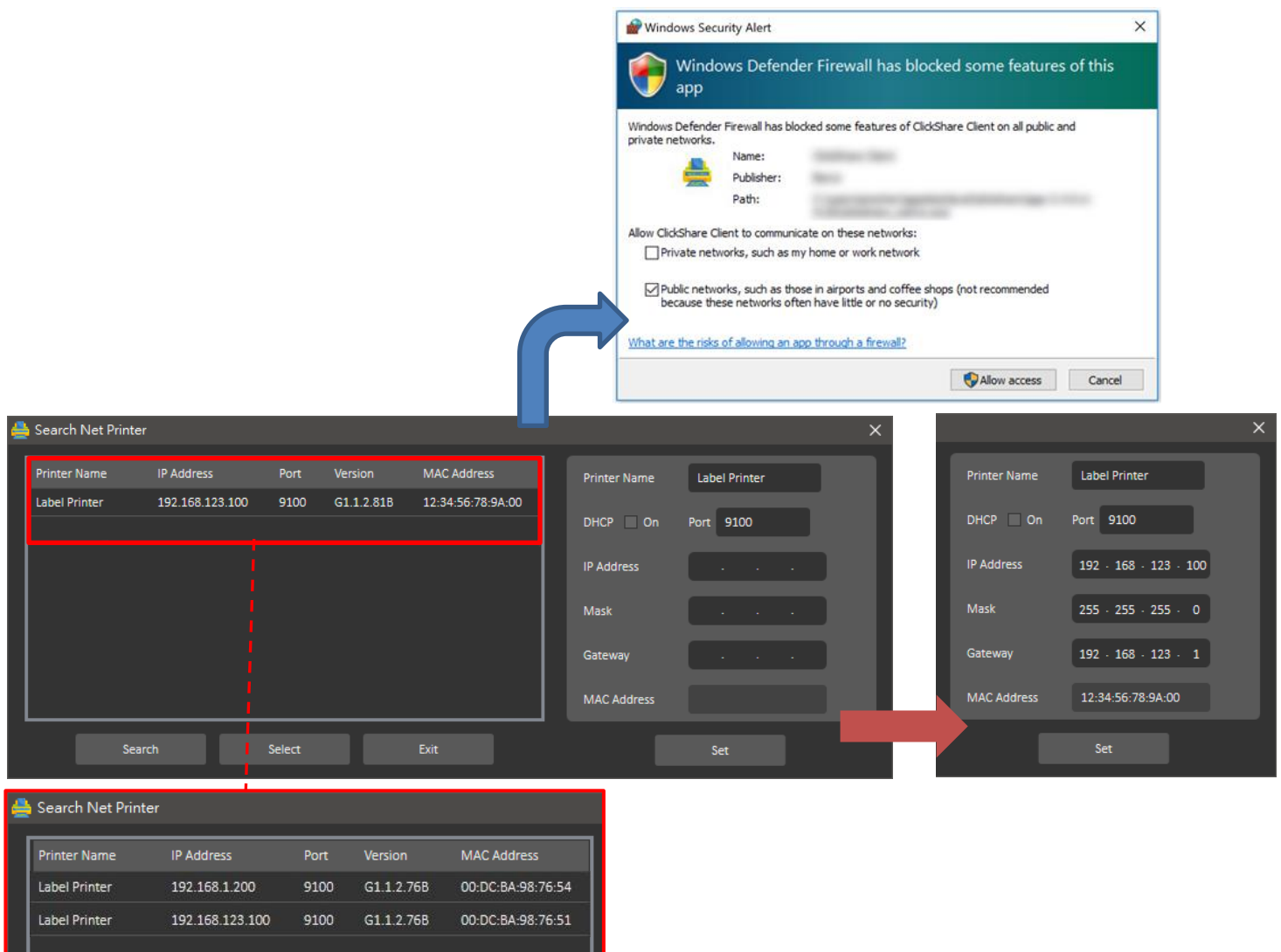


2. You can get the IP address of the printer through the search function, and connect to the printer through the IP to perform functions such as querying, setting, and sending commands to the printer (same as USB / RS232 communication interface function).

1-3-2 Search net printer window

1. Click the **Search** button (wait three seconds), to search for network printers in different network segments. Click the field of the printer to modify the settings to bring the network settings data of the printer to the right setting screen .

※ When the search button is clicked for the first time, the security alert will pop up, please select to allow access. If there is no security alert and the printer cannot be found, please turn off this function or set an exception in accordance with each antivirus program, then you can pass the antivirus program certification.



2. The setting screen on the right can set the printer's IP and other network connection data of the printer. If DHCP ☒ is turned on, the IP address / mask / gateway can only be read. After setting, click the **Set** button to complete the net printer setting.

Printer Name: Label Printer

DHCP ☒ On

Port: 9100

IP Address: 192 · 168 · 1 · 100

Mask: 255 · 255 · 255 · 0

Gateway: 192 · 168 · 1 · 1

MAC Address: 00:DC:BA:98:76:51

Set

3. Click the **Select** button to bring the printer data back to the main window and close it.

Click the **Exit** button to close the search net printer window.

Printer Name	IP Address	Port	Version	MAC Address
Label Printer	192.168.123.100	9100	G1.1.2.81B	12:34:56:78:9A:00

Search Select Exit Set

Port Settings

☐ USB ☐ RS232 ☒ Ethernet

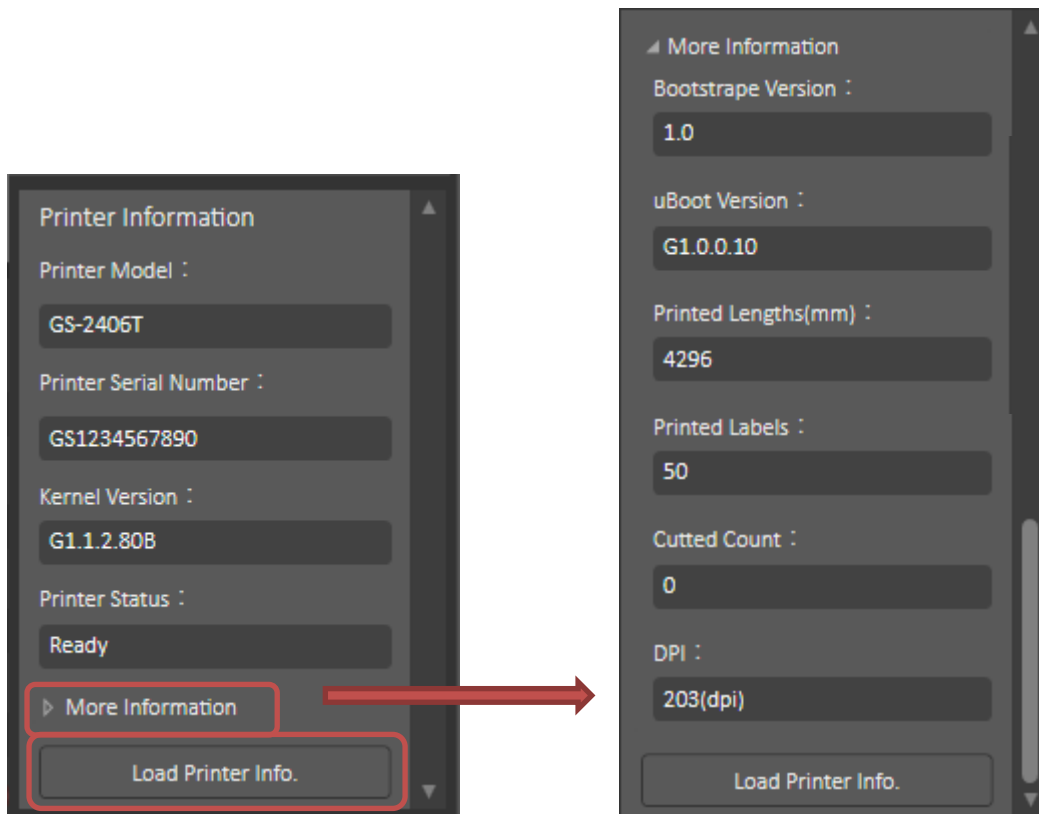
Select Port :

192.168.1.181:9100[Lat] Search

192.168.1.181:9100[Label Printer]

(2) Printer Information

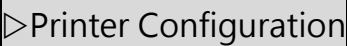
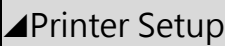
After the printer is connected through the selected Port, click the **Load Printer Info.** button in the printer information to get the current information about the printer, including: Printer Model 、Printer Serial Number 、Kernel Version 、Printer Status 、Bootstrap Version 、uBoot Version 、Printed Lengths 、Printer Labels 、Cutted Count 、DPI.

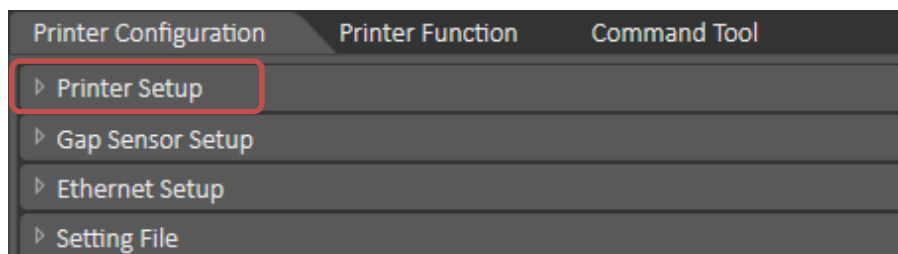


Part of the information (Bootstrap Version 、uBoot Version 、Printed Lengths 、Printer Labels 、Cutted Count 、DPI) need to click **More Information** and use the right scroll to pull down to see all the information.

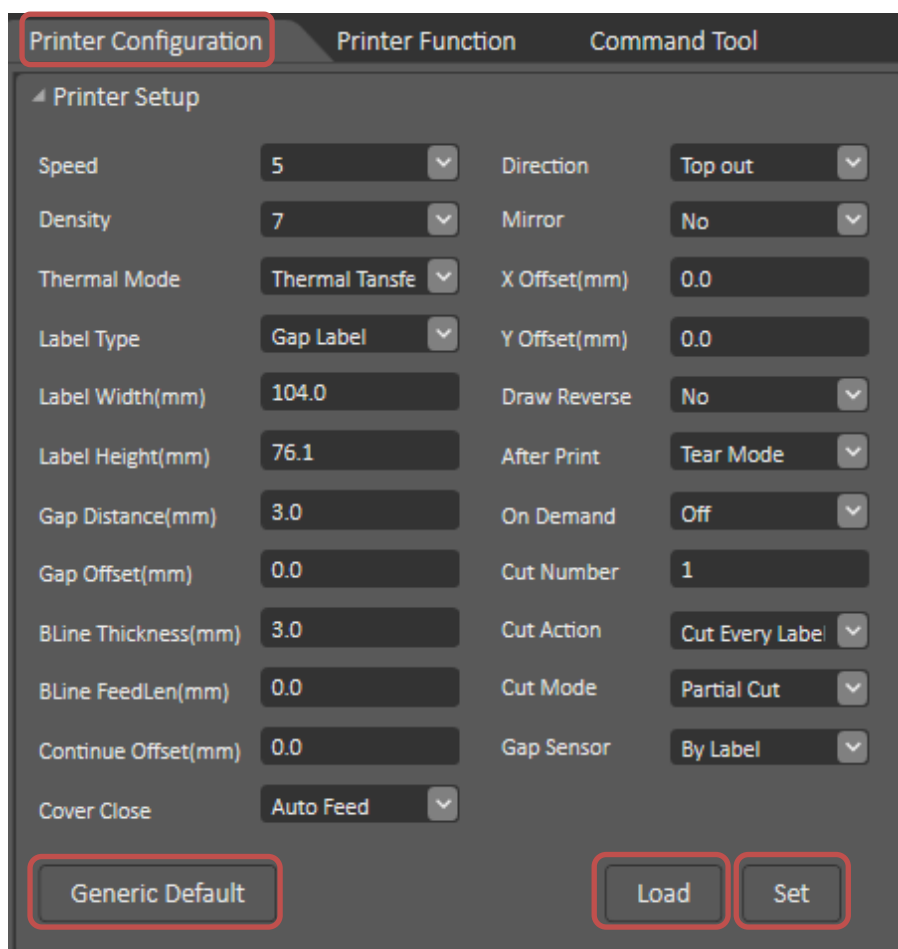
(3) Printer Configuration

3-1 Printer Setup

1. Click the  and  to open and close the Printer Setup screen.



2. Click the  Button to bring out all Printer Setup information through the selected communication interface. Click the  button to write the setting value to the printer (please execute the reading function before writing). Click the  button to initialize the setting value.



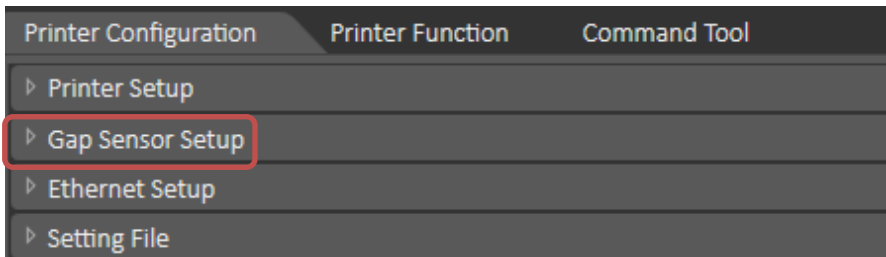
3.Printer Setup field description :

Field name	Function Description
Speed	Set speed (1 ~ 15). When user needs to improve print quality or use a resin ribbon, a lower speed is recommended.
Density	Set density(0~15), determines the color of the printed content. Wax ribbons can be set to lower density values, while resin ribbons and polyester label can be set to higher density values. Setting the density too high may cause the ribbon to break or distort.
Thermal Mode	Select the thermal mode according to the type of print media. Direct thermal : No ribbon is used, and the print media used has a thermally sensitive coating that darkens when heated. Thermal Transfer : Use ribbon.
Label Type	Select the label type. Gap label : Use gap label. BLine label : Use a label with a black mark on the label. Continue label : The label that does not need the initial mark, the sensor does not sense the label length, only monitors the output condition of the label, and prints to the specified length.
Label Width	Set label width.
Label Height	Set label height.
Gap Distance	Set gap distance.
Gap offset	After setting the label gap distance, how much distance to move.
BLine Thickness	When using BLine label, set the thickness of the BLine.
BLine FeedLen	When using BLine label, set how much distance to move after the thickness of the BLine.
Continue label Offset	When using continue label, set the displacement of the continue label.
Cover Close	Select whether to feed paper automatically after closing the printer cover.
Direction	Set the direction for printing the label content. User can choose the top or bottom output.

Field name	Function Description
Mirror	Choose whether to use mirror. If user choose Yes, the printed pattern will be reversed.
X Offset	Set the horizontal (left and right) position of the print content.
Y Offset	Set the vertical (up and down) position of the print content.
Draw Reverse	Sets whether to highlighted the print content.
After Print	After printing, user can set the printer to perform actions: Normal : Do nothing when printing is complete. Tear Mode : After printing is finished, the gap of the label is stopped at the tearing blade, so that the user can easily tear the label. Peel Mode : After printing, the paper is peeled through the peeler. The user must remove the label before the printer prints the next label. Cut Mode : After printing is complete, the printer cuts the label.
On Demand	If user set on demand, press the button once to print the label once.
Cut Number	Set how many sheets the printer can print before cutting.
Cut Action	Set the printer to cut every label, by cut number or only last one.
Cut Mode	Set the printer to cut the paper to full cut (full sheet cut) or partial cut.
Gap Sensor	Set the printer's sensor by label, see-through or reflective (for Bline label).

3-2 Gap Sensor Setup

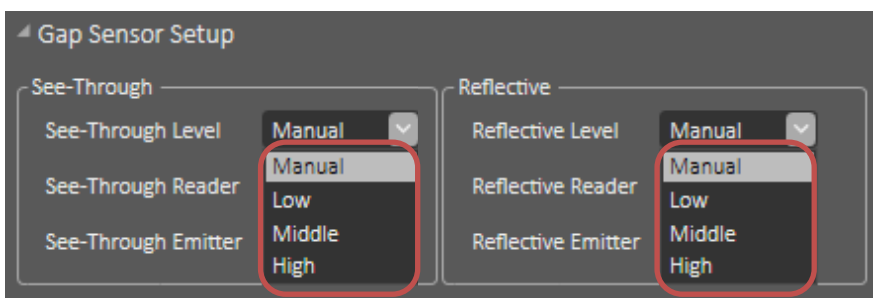
1. Click the ▶ gap sensor setup and ◀ gap sensor setup in the printer configuration to open and close the gap sensor setup screen.



2. Click the Load button in the ◀ gap sensor setup to automatically bring up the setting information of printer sensor. Click the Set button to write the setting value of the sensor to the printer. Click the Gap Sensor Default button to initialize the setting value of the sensor. The default values are see-through level(middle) and reflective level(middle).



3. In the ◀ gap sensor setup, user can set the level of see-through or reflective (manual, low, middle, high).



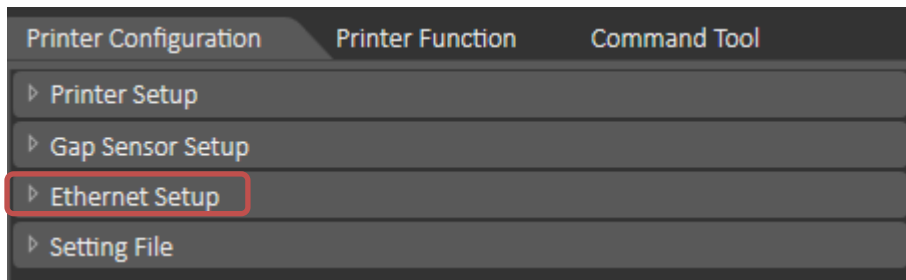
4. when the see-through or reflective is switched to manual, the reader (weak, low, middle, high) and the emitter (low, middle, high) can be set separately.

▲ Gap Sensor Setup

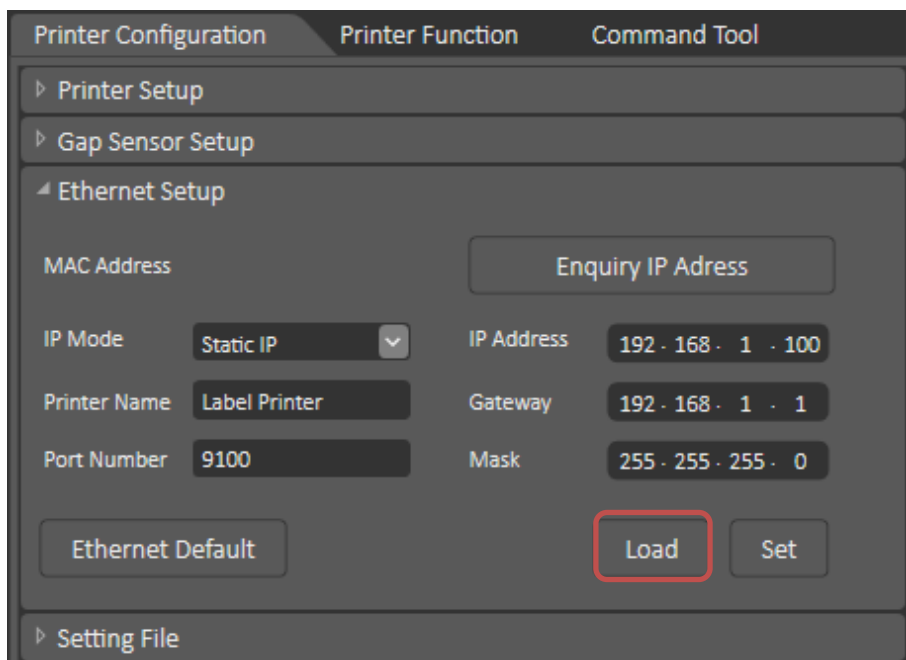
See-Through	Reflective
See-Through Level Manual	Reflective Level Manual
See-Through Reader High	Reflective Reader Middle
See-Through Emitter Middle	Reflective Emitter Middle

3-3 Ethernet Setup

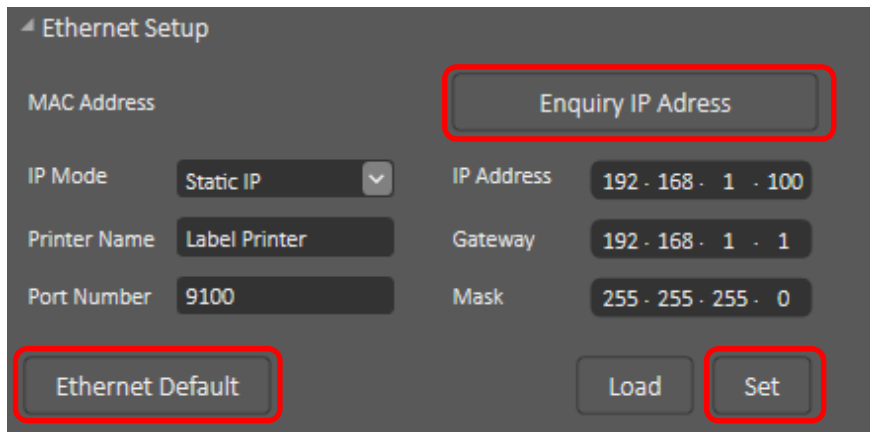
1. Click  Ethernet Setup and  Ethernet Setup in the printer configuration to open and close the Ethernet Setup screen.



2. Click the  button to bring out the printer's network connection settings through the selected communication interface.

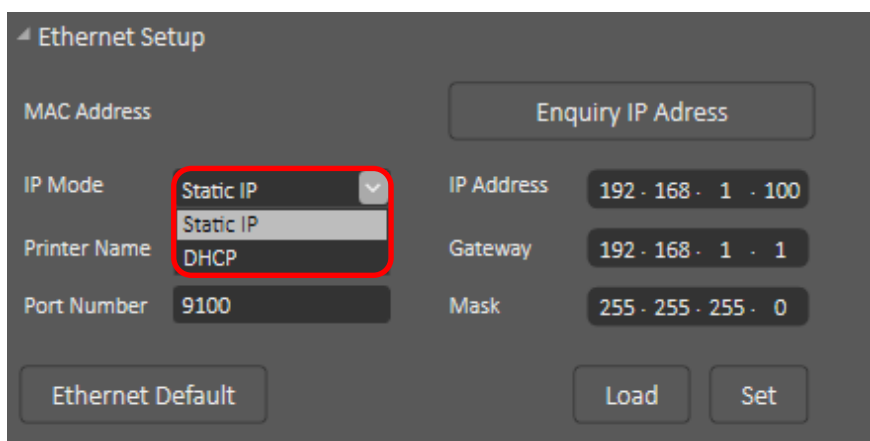


3. Click the **Set** button to set the printer's Ethernet. Click the **Ethernet Default** button to restore the Ethernet setting to the default value. Click the **Enquiry IP address** button to query the current net printer's Ethernet IP address / mask / gateway settings.



The screenshot shows the 'Ethernet Setup' window. The 'Enquiry IP Address' button at the top right is highlighted with a red rectangle. At the bottom left, the 'Ethernet Default' button is highlighted with a red rectangle. At the bottom right, the 'Set' button is highlighted with a red rectangle. The interface includes fields for MAC Address, IP Mode (set to Static IP), IP Address (192.168.1.100), Printer Name (Label Printer), Gateway (192.168.1.1), Port Number (9100), and Mask (255.255.255.0). There are also 'Load' and 'Set' buttons at the bottom right.

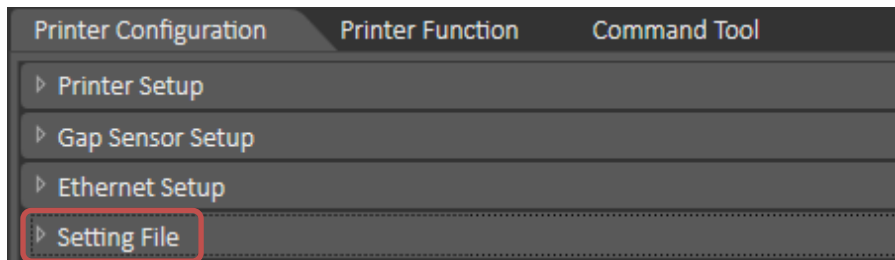
※ When setting, if the communication interface is selected as Ethernet and the IP mode is set to DHCP, an error will occur when the printer is set or read immediately; because the IP has been changed to a floating IP instead of the original connection IP, so user should go to the communication interface to search the printer again, and bring it back to the main window to reconnect before you can normally perform the reading and setting functions of the printer.



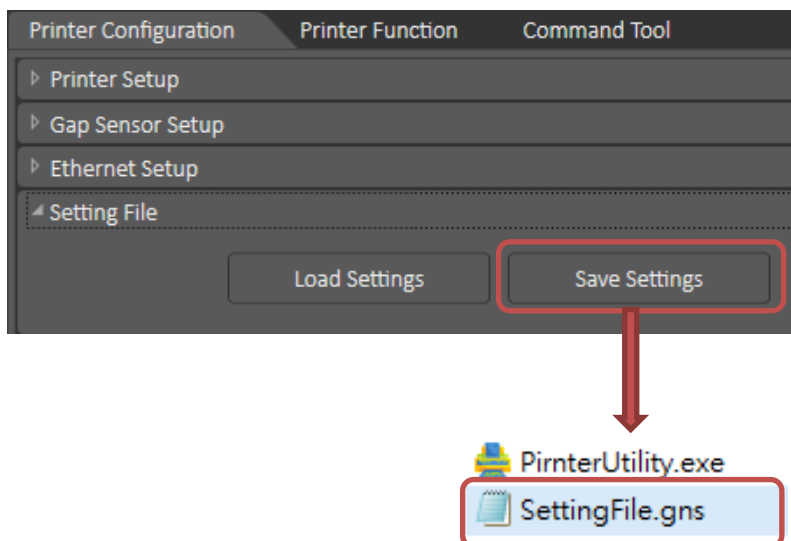
This screenshot shows the 'Ethernet Setup' window with the 'IP Mode' dropdown menu open. The dropdown menu has three options: 'Static IP' (which is highlighted with a red rectangle), 'Static IP', and 'DHCP'. The other fields in the interface remain the same as in the previous screenshot.

3-4 Setting File (Save and read the general settings of the printer)

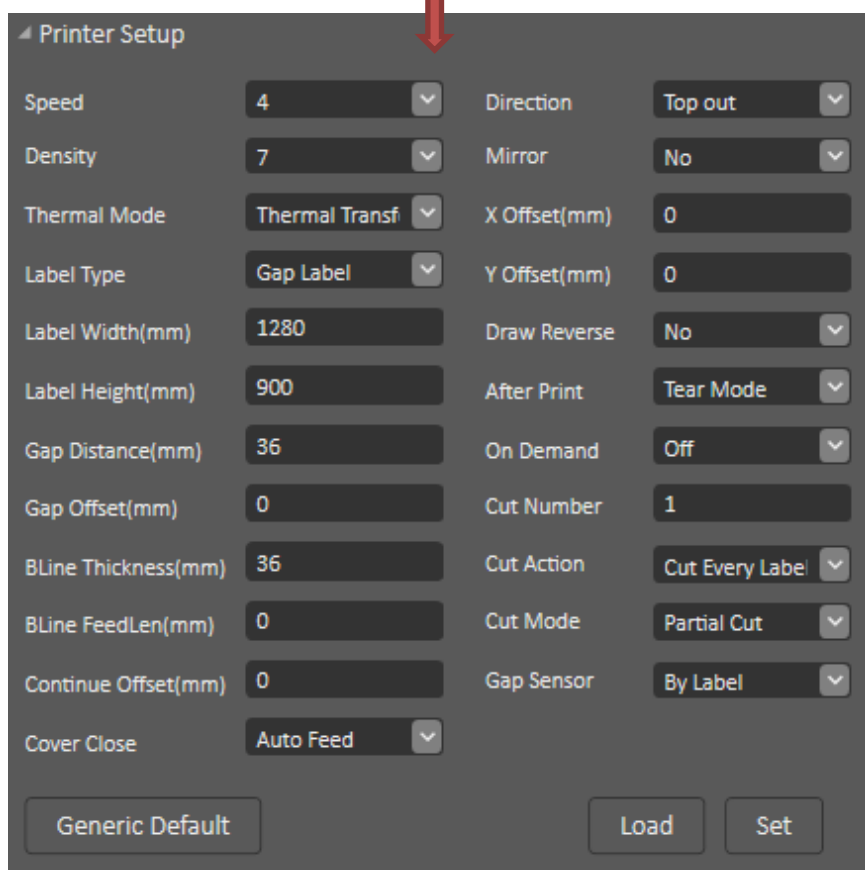
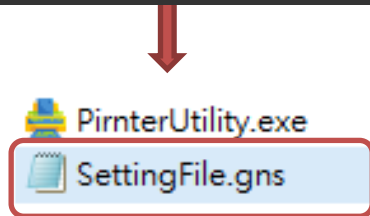
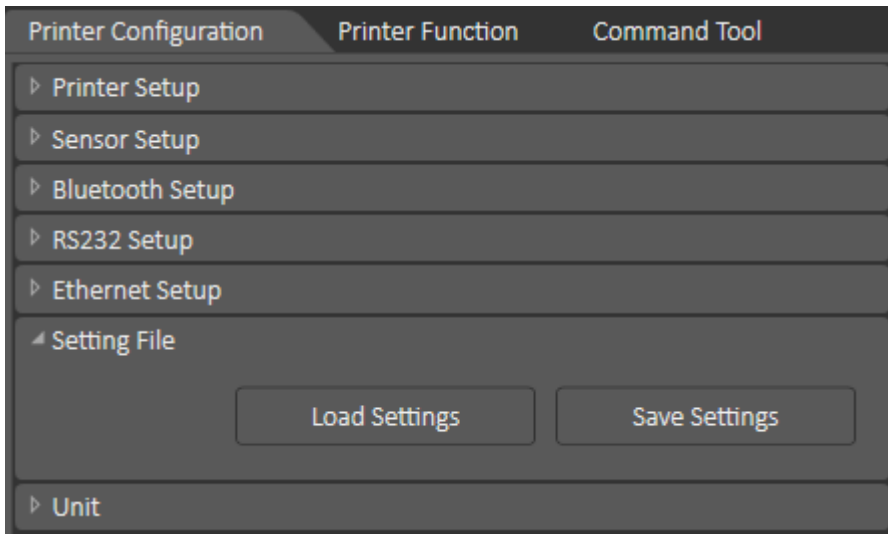
1. In the printer configuration, click the  Setting File and  Setting File to open and close the setting file screen.



2. Click the  button to save the values in the general settings field of the printer in the SettingFile.gns file. The path of this file is the same as the PrintterUtility.exe program directory.



3. In the setting file, click the **Load Settings** button, it will search the PirnterUtility.exe program directory for the existence of the SettingFile.gns file, if there is, the settings stored in the file will be brought to the printer in the set field.

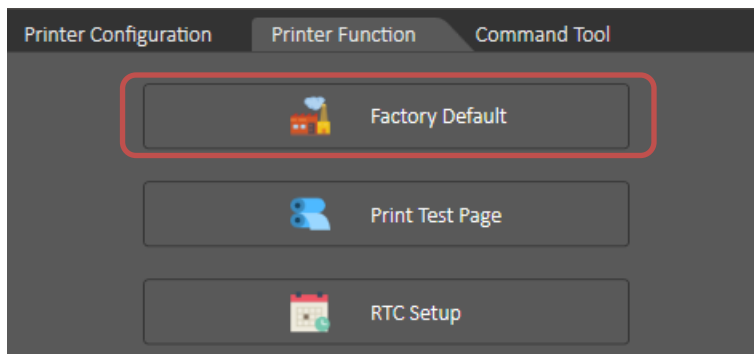


(4) Printer Function

4-1 Factory Default

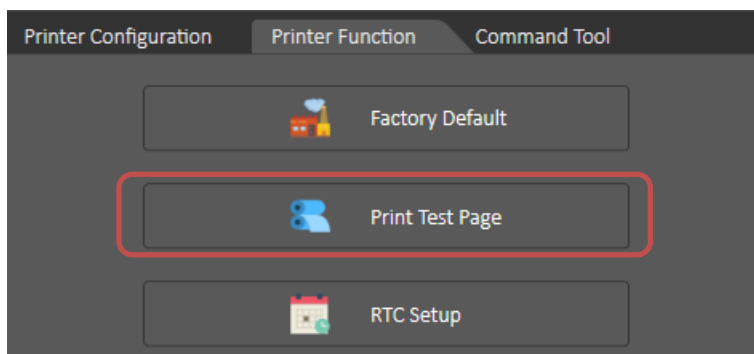
Click the **Factory Default** button in the printer function to restore the printer's settings to the factory preset values.

The machine will restore the general settings, gap sensor, RS232, Ethernet, WIFI, Bluetooth settings to the factory default.

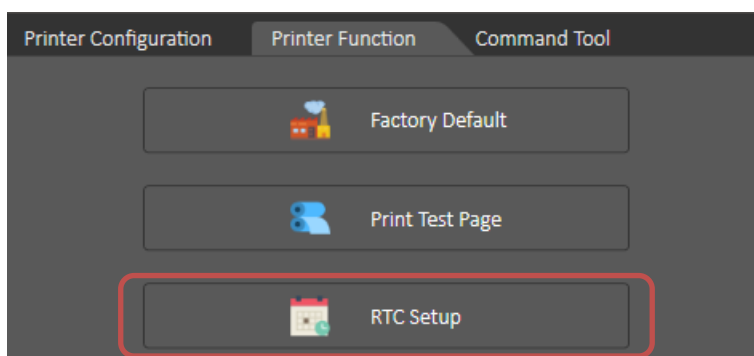


4-2 Print Test Page

Click the **Print Test Page** button in the printer function, and the printer will automatically print a preset label pattern.



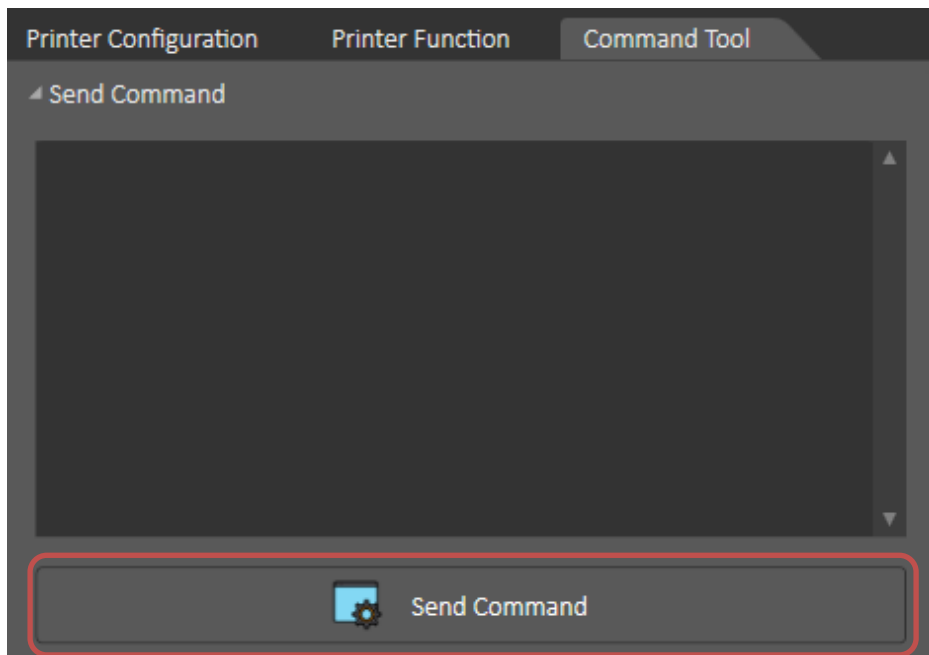
4-3 RTC Setup



(5) Command Tool

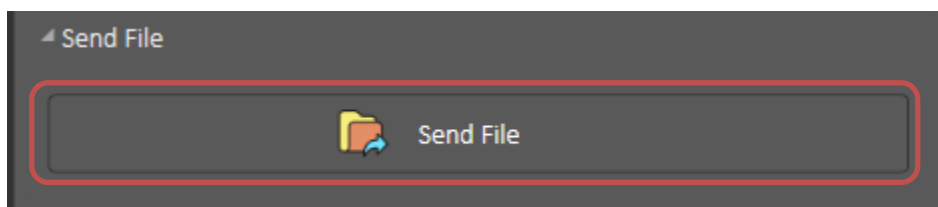
5-1 Send Command

Send command function, provide the direct use to send the command string to the printer, and no reply from the printer is required. After entering the commands in the editing area, press the ENTER key on the PC keyboard once at the end of each line of commands and click the **Send Command** button to send the command to the printer.



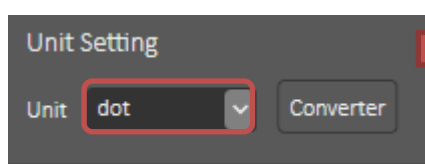
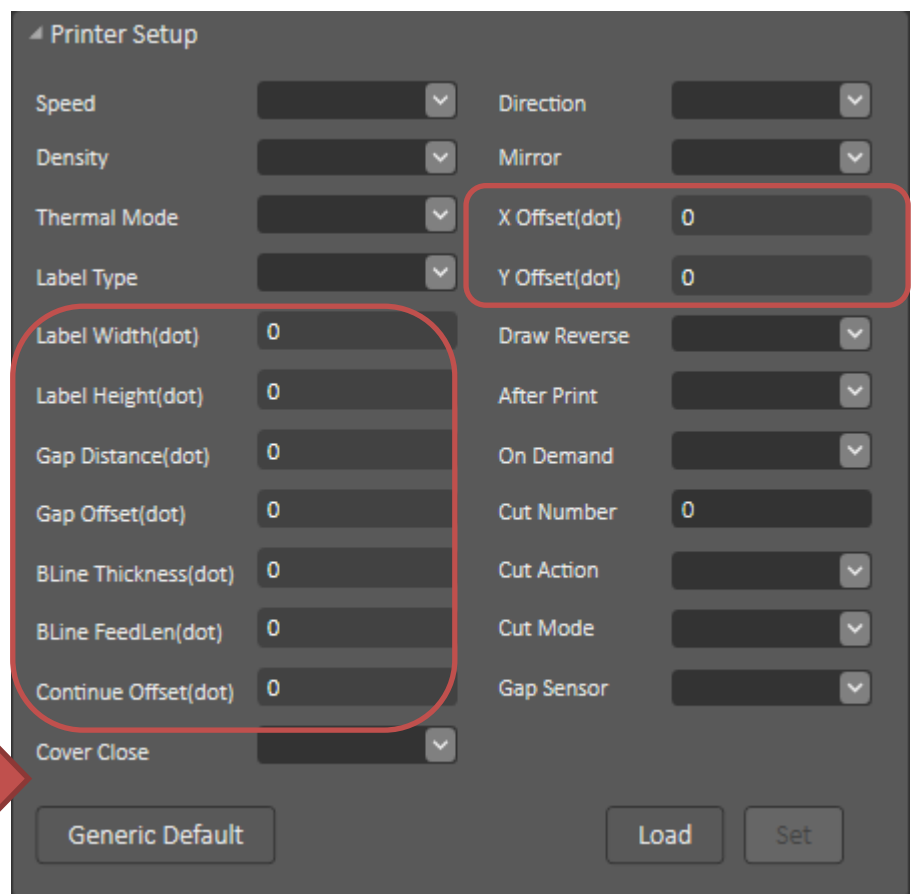
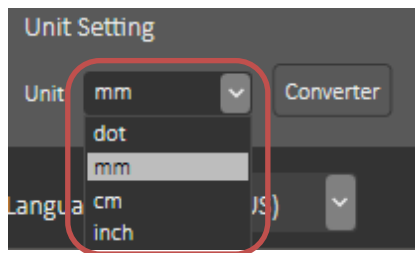
5-2 Send File

Click the **Send File** button to open the Select File window and select the file to be sent to the printer. User can also send commands to the printer in this way.



(6) Unit Setting

1. User can set the printing unit to be used: dot, mm, cm, inch. When switching units, in the printer setup, all the field values of the units used will be converted simultaneously.



Unit Setting

Unit mm

Printer Setup

Speed	v	Direction	v
Density	v	Mirror	v
Thermal Mode	v	X Offset(mm)	0.0
Label Type	v	Y Offset(mm)	0.0
Label Width(mm)	0.0	Draw Reverse	v
Label Height(mm)	0.0	After Print	v
Gap Distance(mm)	0.0	On Demand	v
Gap Offset(mm)	0.0	Cut Number	0
BLine Thickness(mm)	0.0	Cut Action	v
BLine FeedLen(mm)	0.0	Cut Mode	v
Continue Offset(mm)	0.0	Gap Sensor	v
Cover Close	v		

Generic Default

Load Set

Unit Setting

Unit cm

Printer Setup

Speed	v	Direction	v
Density	v	Mirror	v
Thermal Mode	v	X Offset(cm)	0.00
Label Type	v	Y Offset(cm)	0.00
Label Width(cm)	0.00	Draw Reverse	v
Label Height(cm)	0.00	After Print	v
Gap Distance(cm)	0.00	On Demand	v
Gap Offset(cm)	0.00	Cut Number	0
BLine Thickness(cm)	0.00	Cut Action	v
BLine FeedLen(cm)	0.00	Cut Mode	v
Continue Offset(cm)	0.00	Gap Sensor	v
Cover Close	v		

Generic Default

Load Set

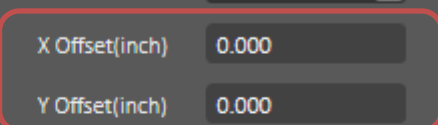
Unit Setting

Unit inch 

 Converter

Printer Setup

Speed		Direction	
Density		Mirror	
Thermal Mode		X Offset(inch)	0.000
Label Type		Y Offset(inch)	0.000
Label Width(inch)	0.000	Draw Reverse	
Label Height(inch)	0.000	After Print	
Gap Distance(inch)	0.000	On Demand	
Gap Offset(inch)	0.000	Cut Number	0
BLine Thickness(inch)	0.000	Cut Action	
BLine FeedLen(inch)	0.000	Cut Mode	
Continue Offset(inch)	0.000	Gap Sensor	
Cover Close			

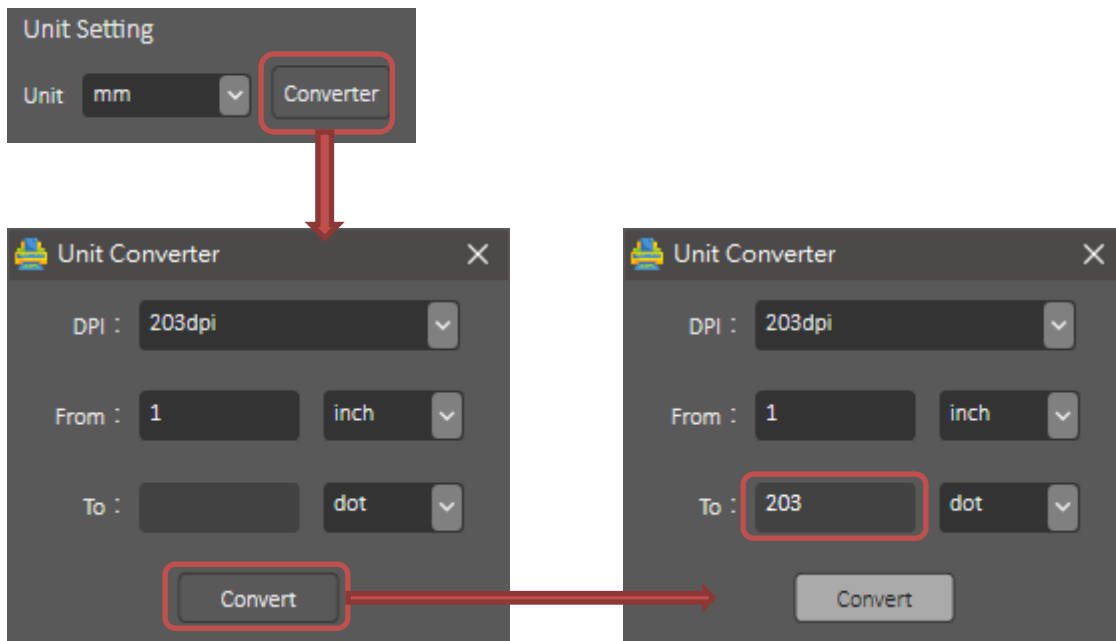




Generic Default

Load Set

2. Click the **Converter** button to bring up the unit conversion tool window, which is convenient for the user to conduct the trial calculation of unit conversion at different resolutions. After selecting the DPI (203dpi, 300dpi, 600dpi), enter the value to be converted in the [From:] field, and set the initial unit (dot, mm, cm, inch), and then set the converted unit below , Click the **Convert** button to start the unit conversion trial calculation.



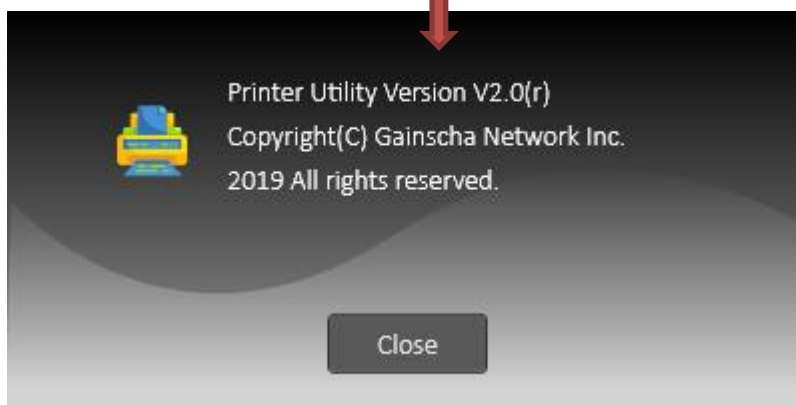
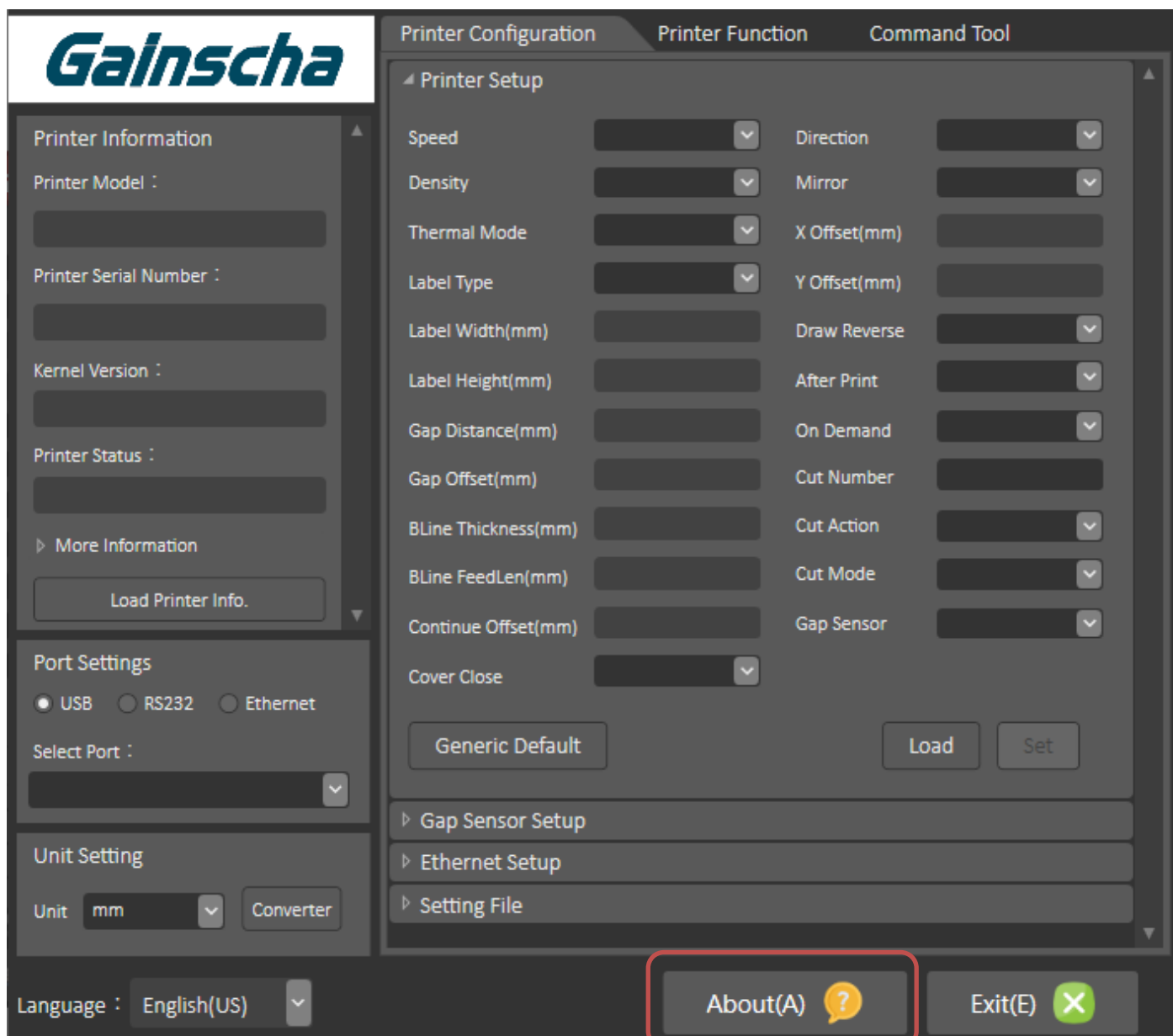
(7) Language

Currently, it supports switching between three languages, traditional Chinese, simplified Chinese, and English (English will be opened by default when the program is opened).



(8) About

Click the **About** button to inquire about relevant information of this program.



(9) Exit

Click the **Exit** button to close this program.

