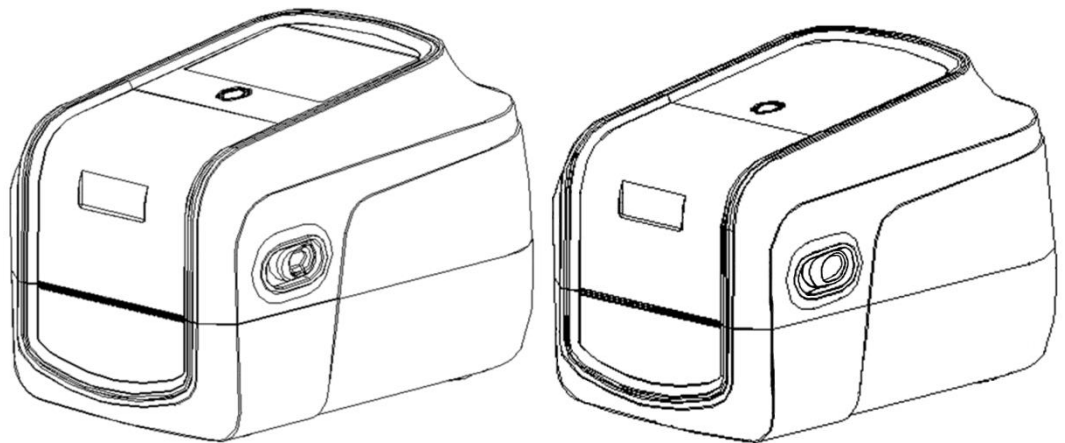


GA-2408T / GA-3406T / Series

**THERMAL TRANSFER / DIRECT THERMAL
APEX LABEL PRINTER**

**USER'S
MANUAL**



Agency Compliance and Approvals



EN 55032, Class A
EN 55024

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.



FCC part 15B, Class A

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause harmful interference with radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

Environmental protection



Do not dispose of this product in an unsorted public trash can. You should recycle this product according to local regulations. For more information, please see our website:

website : <http://www.gainscha.com.tw>

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1. Introduction

1.1 Product Introduction

Thank you very much for purchasing Gainscha bar code label printer.

The T series printer features the single motor that is capable of handling a large capacity of 300 meters ribbon and large rolls of media inside its sleek design. If the 5" interior label capacity is not enough, simply add an external media roll mount and the GS series can easily handle 8" OD rolls of labels designed for expensive industrial label printers.

To meet the various printing requirements, T series provides different memory capacity.

Moreover, T series have optional peel-off and cutter kits for users to purchase. The movable black mark sensor design can accept a wide range of label media. All of the most frequently used bar code formats are included. Fonts and bar codes can be printed in any one of the four directions.

The T series printer is built-in the flexible firmware design, user can download various printer commands to perform the work. Please refer to the types of printer commands supported in the specifications. By integrating rich features, it is the most cost-effective and high-performance printer in its class!

To print label formats, please refer to the instructions provided with your labeling software, available on Gainscha website <http://www.gainscha.com.tw>

- Applications

- Manufacturing & Warehousing

- Work in Progress
 - Item Labels
 - Instruction labels
 - Agency labels
 - Compliance labels
 - Logistics management labels
 - Electronics labels

- Parcel Post

- Shipping/ Receiving Labels

- Healthcare

- Patient Identification
 - Pharmacy
 - Specimen Identification

- Retail Marking

- Price tags
 - Shelf labels
 - Jewelry tags
 - Asset management labels
 - Care labels

- Small Office/ Home Office

1.2 Product Features

1.2.1 Printer Standard Features

PRINTER MODEL	GA-2408T	GA-3406T	GA-2408T	GA-3406T
Grade	Standard	Standard	Empower	Empower
Resolution	8dots/mm(203DPI)	12dots/mm(300DPI)	8dots/mm(203DPI)	12dots/mm(300DPI)
Printing Method	Thermal Transfer & Direct Thermal			
Max. print speed	203mm(8")/second	152mm(6")/second	203mm(8")/second	152mm(6")/second
Max. print width	104 mm (4.09")	106.7 mm (4.2")	104 mm (4.09")	106.7 mm (4.2")
Max. print length	25,400 mm (1,000")	11,430 mm (450")	25,400 mm (1,000")	11,430 mm (450")
Enclosure	Clamshell with double-walled plastic			
CPU	400 MHZ, 32 bits, ARM9			
Memory RAM	128 MB SDRAM			
Memory ROM	128 MB Flash Memory			
Interface	<ul style="list-style-type: none"> • USB 2.0 High Speed 480Mbps • USB Host 2.0, for scanner or PC keyboard • Internal Ethernet 10/100Mbps • RS-232 • Internal Bluetooth 4.0 (factory option) • Internal WiFi (factory option) 			
Real Time Clock	Standard			
Buzzer	Standard			
Dealer options	<ul style="list-style-type: none"> • Guillotine cutter (full cut and partial cut) • Guillotine cutter for Linerless thermal label • Peeler 			
Sensors	<ul style="list-style-type: none"> • Head open sensor, Ribbon end sensor, Reflective sensor (moveable), Transmissive sensor (moveable) 			

	<ul style="list-style-type: none"> Guillotine cutting system with a peel-off sensor 			
Power	External universal switching power supply Input: AC 100-240V, 2.5A, 50-60Hz, Output: DC 24V, 2.5A, 60W			
User Interface	<ul style="list-style-type: none"> 1 power switch 1 button (Feed) 5 LEDs (Online blue, Error red, Ribbon green, Communication orange, Press-key white) 	<ul style="list-style-type: none"> 1 power switch 1 button (Feed) 1 LEDs (Press-key white) 4.3" TFT-LCD 480x272 dots with Capacitive touch panel 		
Internal fonts	<ul style="list-style-type: none"> 8 alpha-numeric bitmap fonts True type font engine (need download scalable font file) 			
1D Barcode	Code 11, Code 39, Code 93, Code 128 (subsets A, B, C), UPC-A, UPC-E, UCC-128, Codabar, EAN/JAN-8, EAN/JAN-13, Interleaved 2 of 5, ITF14, MSI Pleassy, PostCode, Telepen			
2D Barcode	QR Code, Micro QR Code, PDF417, Micro PDF417, MaxiCode, Aztec Code, Data Matrix			
Rotation	Font and barcode support 0, 90, 180, 270 degree			
Printer language	Compatible to TSPL, EPL, ZPL, ZPL II, DPL			
Ribbon	300 M long, max. OD 67 mm, 1" core (ink coated outside)			
Ribbon width	30 mm ~ 110 mm (1.18" ~ 4.3")			
Media type	Continuous, die-cut, black mark, fan-fold (outside wound), Linerless Thermal Label			
Media width	20~ 118 mm (0.7" ~ 4.6")			
Media thickness	0.06~0.254mm (2.36 ~ 10 mil)			
Media core diameter	25.4 mm (1")			
Label roll capacity	127 mm (5") OD			
Label length	5 ~25,400 mm (0.2" ~ 1,000")	5 ~11,430 mm (0.2" ~450")	5 ~25,400 mm (0.2" ~ 1000")	5 ~11,430 mm (0.2" ~450")
Physical dimension	280mm(L)*190mm(W)*198.3mm(H)			

Safety regulation	FCC Class A, CE Class A, CCC, BIS, CB
Environment condition	Operation: 5 ~ 40°C, 25 ~ 85% non-condensing Storage: -40 ~ 60°C, 10 ~ 90% non-condensing
Environmental concern	Comply with RoHS, REACH, WEEE
Accessories	<ul style="list-style-type: none"> • Windows labeling software CD disk • Quick start guide • USB cable • Power cord • 1" ribbon spindle x 2 for 300M ribbon • External universal switching power supply

1.2.2 Printer Optional Features

Product option feature	User options	Dealer options	Factory options
Peeler module		<input type="radio"/>	<input type="radio"/>
Regular full cut cutter (Guillotine cutter) Media thickness: 0.06~0.19 mm Media type: receipt and label liner w/o glue		<input type="radio"/>	<input type="radio"/>
Regular full/partial cutter (TextileCare Cutter)		<input type="radio"/>	<input type="radio"/>
linerless cutter		<input type="radio"/>	<input type="radio"/>
Internal Bluetooth module		<input type="radio"/>	<input type="radio"/>
Internal WIFI module		<input type="radio"/>	<input type="radio"/>
Internal Bluetooth and WIFI module		<input type="radio"/>	<input type="radio"/>

NOTE : Except for the linerless cutter, all regular/heavy duty/care label cutters DO NOT cut on media with glue.

2. Operations Overview

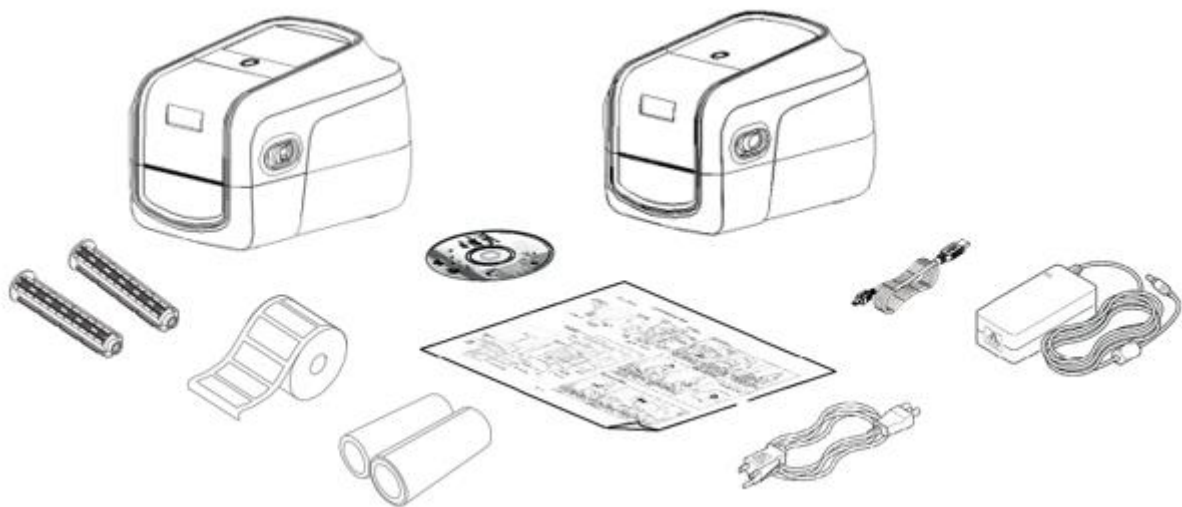
2.1 Unpacking and Inspection

This printer has been specially packaged to withstand damage during shipping. Please carefully inspect the packaging and printer upon receiving the bar code printer. Please retain the packaging materials in case you need to reship the printer.

Unpacking the printer, the following items are included in the carton.

- One printer unit
- One quick installation guide
- One power cord
- One external universal switching power supply
- One USB interface cable
- 1inch core ribbon shaft for 300m ribbon
- One sample ribbon and Label roll
- One Windows labeling software/Windows driver CD disk

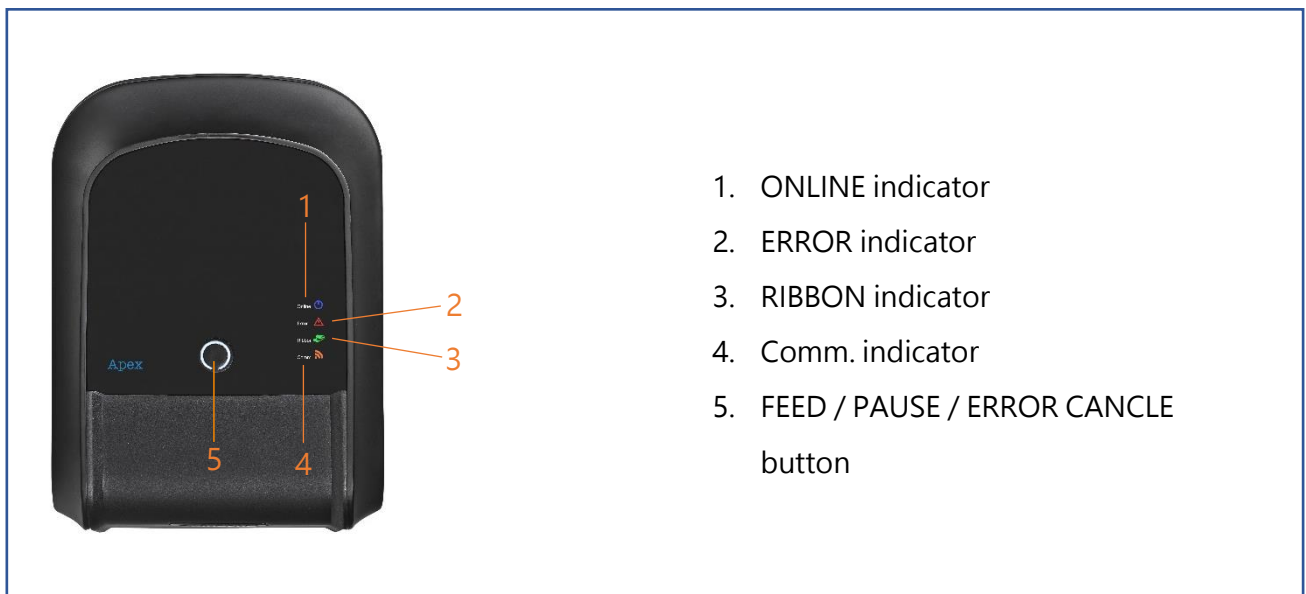
If any parts are missing, please contact the Customer Service Department of your purchased reseller or distributor.




2.2 Printer Overview

2.2.1 Front View

GA-2408T · GA-3406T Series(Contains LED indicator's function introduction)



Operation buttons	
Buttons	Function
FEED / PAUSE / ERROR CANCEL button 	In the ready state, press this button, the printer will spit a sheet of paper, in the printing state, press this button, the printer will stop immediately, in the error state, press this button, the printer will cancel the error state and restore printing function.

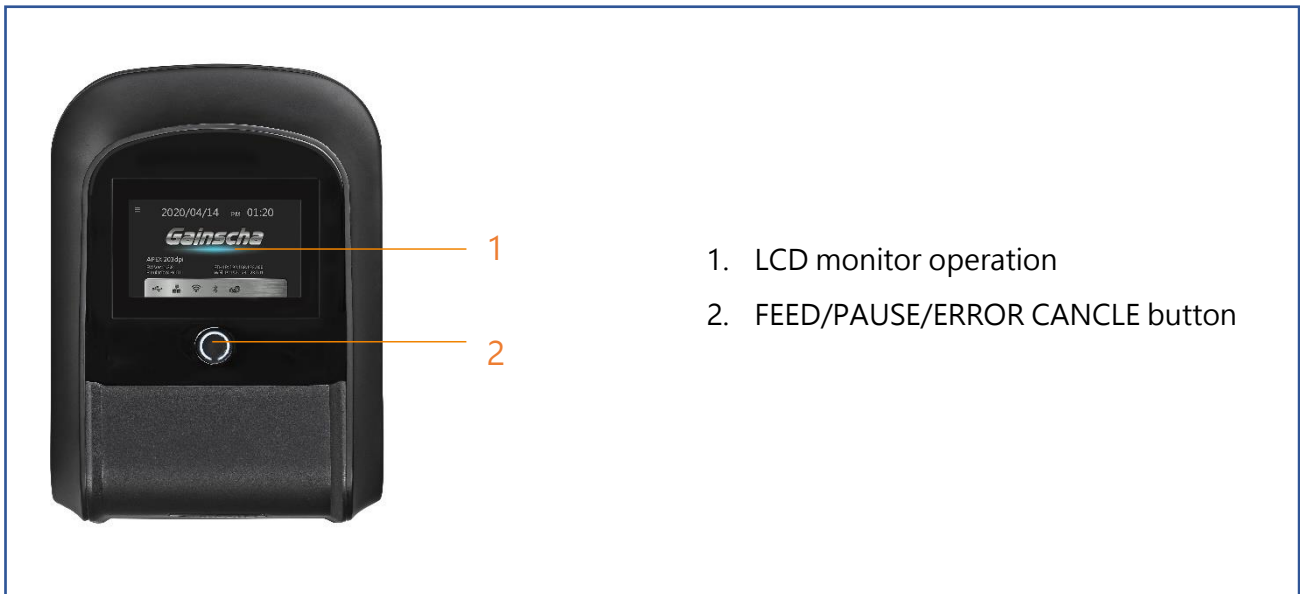
LED Indicator



Event	Description
Thermal transfer mode ready	Blue(ONLINE) and Green(RIBBON) solid, and the device is ready to use.
Direct thermal mode ready	Blue(ONLINE) solid, and the device is ready to use.
Open cover	When the cover is open, a beep sound will be made, and Blue(ONLINE), Red (ERROR), and Green(RIBBON) will flash.
PAUSE	Press the PAUSE button. When the Blue(ONLINE) flash, the printer will pause.
FEED	Press the FEED button to print as per demand, Blue(ONLINE) will flash.
Out of paper	When out of paper, a beep sound will be made, and Red(ERROR) flash

Out of ribbon	When out of ribbon, a beep sound will be made, and Red(ERROR) solid · Green(RIBBON) flash
Label gap/black mark error	When label gap/black can't be found, a beep sound will be made, and Red(ERROR) Blue(ONLINE) flash
Cutter error	When cutter can't be found, a beep sound will be made, and Blue(ONLINE) · Red(ERROR) Both flash alternately, flash with Green(RIBBON)
Print head overheated	When print head overheated ,a beep sound will be made, and Blue(ONLINE)and Red(ERROP) alternately flash
Other errors	When other errors ,a beep sound will be made, and Red(ERROP) and Green(RIBBON) alternately flash
Ethernet ready	When the RJ45 network cable is plugged in and the connection is normal, the Orange(COMM) flash
WIFI ready	When the WIFI's AP or STA mode is connected, the orange(COMM) solid
Ethernet +WIFI ready	When the RJ45 network cable is plugged in, and the connection is normal, and the WIFI's AP or STA mode is connected, the orange (COMM) will be solid for 2 seconds and the orange(COMM) flash.

GA-2408T · GA-3406T Series (Contains LCD monitor operation introduction)




1. LCD monitor operation
2. FEED/PAUSE/ERROR CANCEL button








FE Ver: printer firmware version
 Emulation: Simulation instruction category
 ETH IP: Ethernet IP address
 WIFI IP: Wi-Fi IP address



Operation buttons

Buttons	Function
FEED / PAUSE / ERROR CANCEL button 	In the ready state, press this button, the printer will spit a sheet of paper, in the printing state, press this button, the printer will stop immediately, in the error state, press this button, the printer will cancel the error state and restore printing function.

Main page icons

Indicated icon	Indication
	Ethernet is connected
	Wi-Fi device is ready
	Bluetooth device is ready
	USB HID is connected · ex: USB scanner · USB keyboard
	Thermal transfer mode · use ribbon function

2.2.2 Interior View all Series (Contains Eco-friendly printing solutions introduction)



Eco-friendly printing solutions

introduction

Used for printing on linerless label, which saves consumables and improves the environment.

application

Linerless Label vs Standard Label



Linerless Label

VS

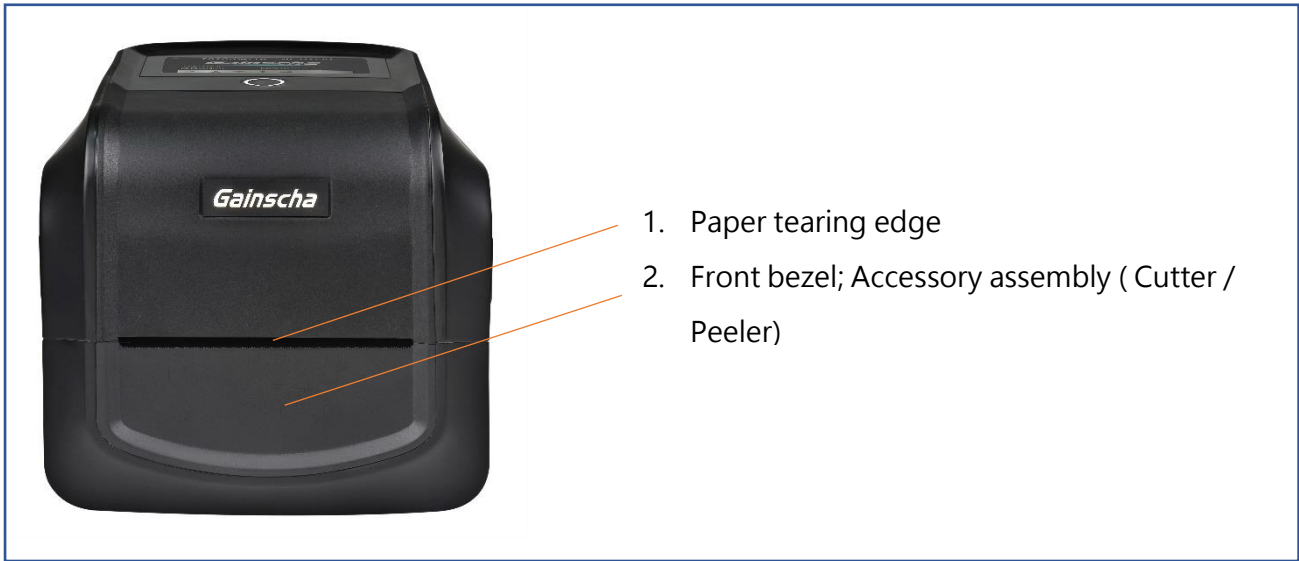


Standard Label

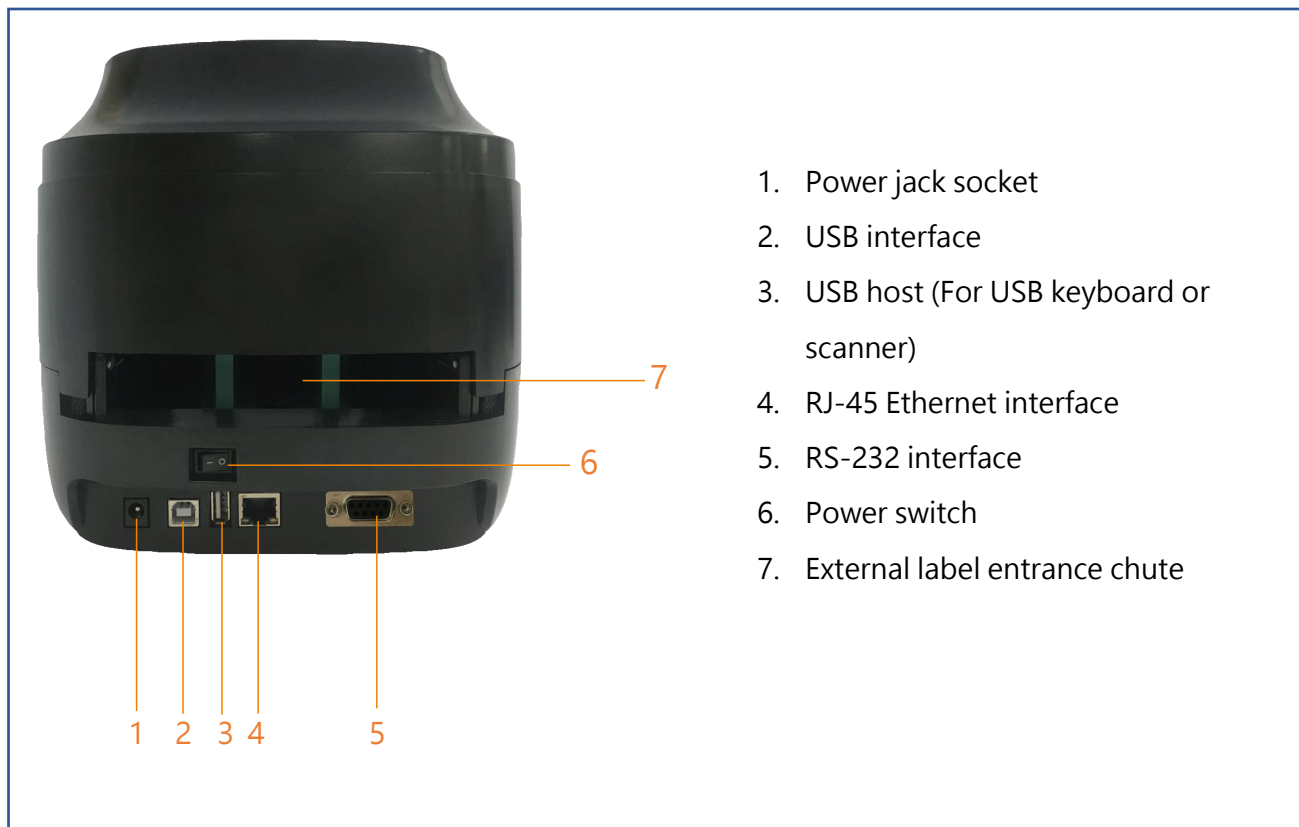
Benefits of using linerless labels

- More labels per roll-increase of 30-40%
- No liner waste removes the risk of injury through slippage
- Less waste disposal translates to less carbon emission
- Reduced transportation costs
- Supports a lower carbon footprint
- Less storage space required

2.2.3 Front View (All Series)



2.2.4 Rear View (All Series)



3. Setup

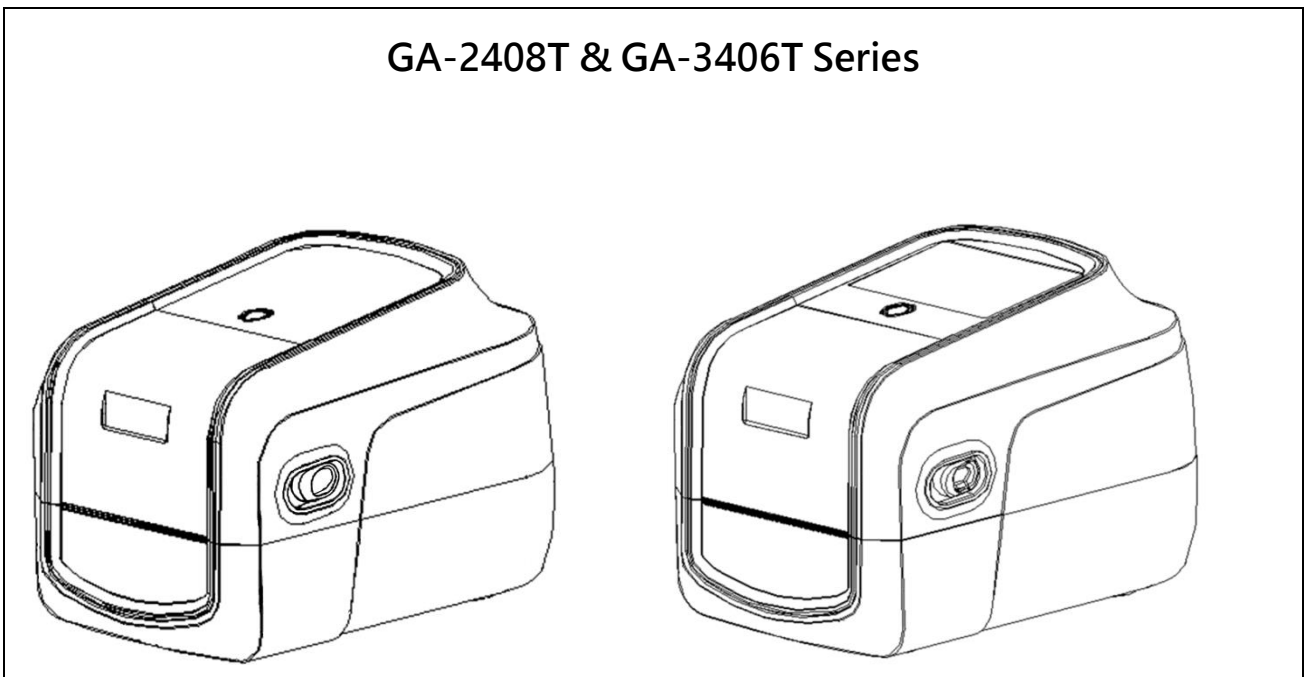
3.1 Setting up the Printer

Place the printer on a flat, secure surface, then follow the steps below:

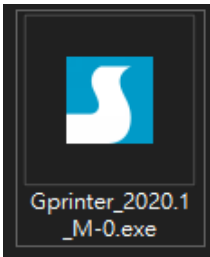
1. Plug the power cord into the AC power cord socket at the rear of the printer. Then, plug the other side into a properly grounded power outlet.
2. Connect the printer to the computer with the provided USB cable.
3. Push the power switch on "-" side to open the power of printer.

NOTE:

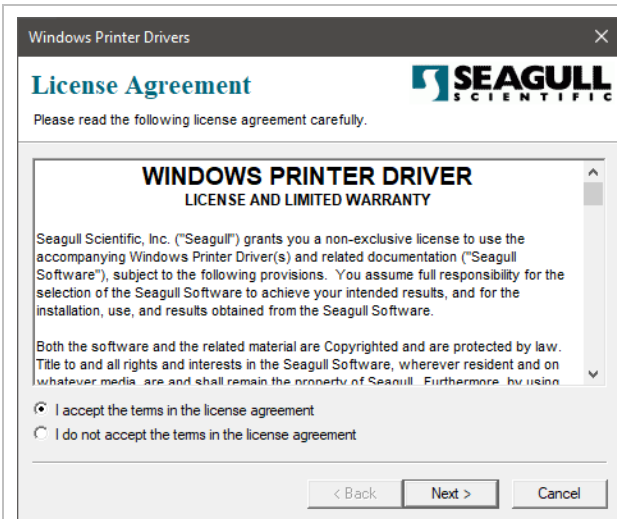
- * Please switch OFF printer power prior to plugging in the power cord to printer power jack.
- * The interface picture here is for reference only. Please refer to the product specification for the interfaces availability.



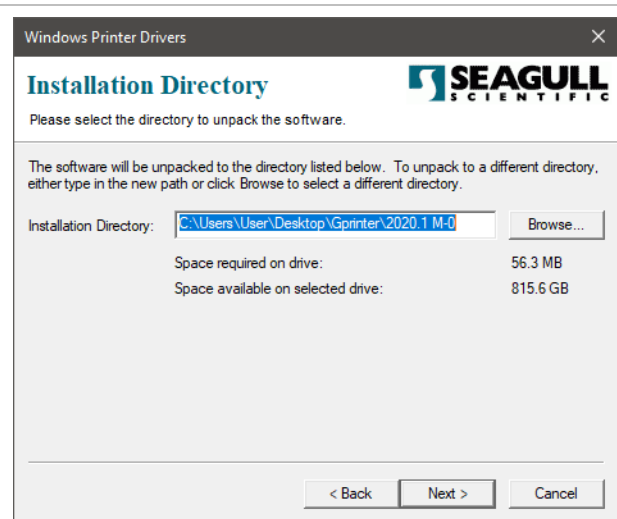
3.2 Install Printer Driver (All Series)



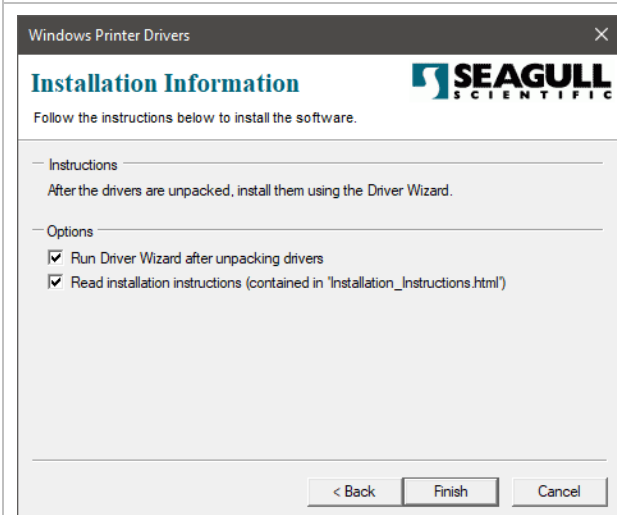
(GA-2408T/GA-3406T)



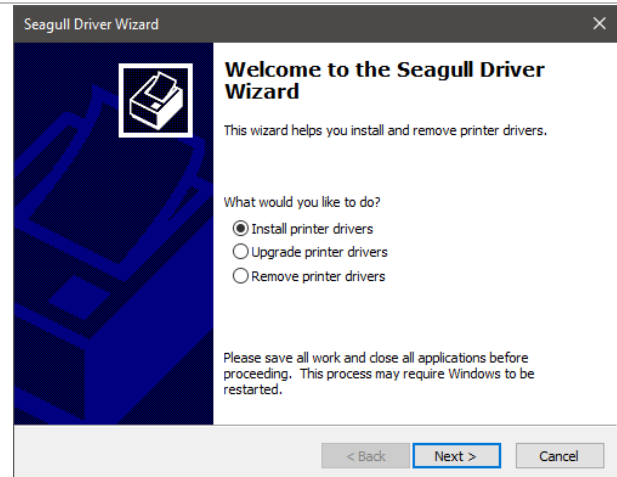
1. Read the license agreement, click [I accept the terms in license agreement], and click [Next].



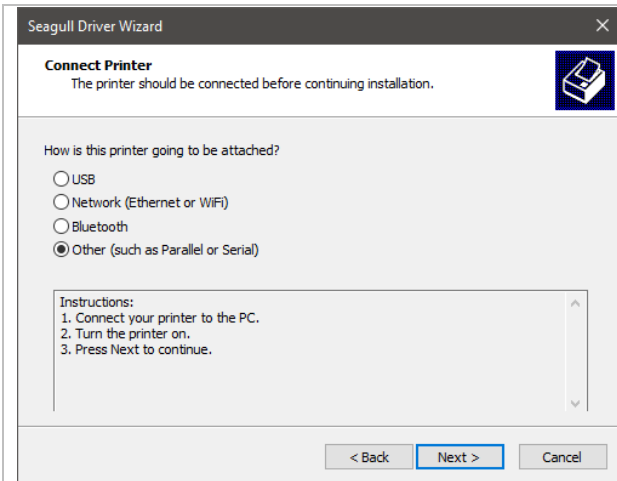
2. Select a installation directory and click [Next].



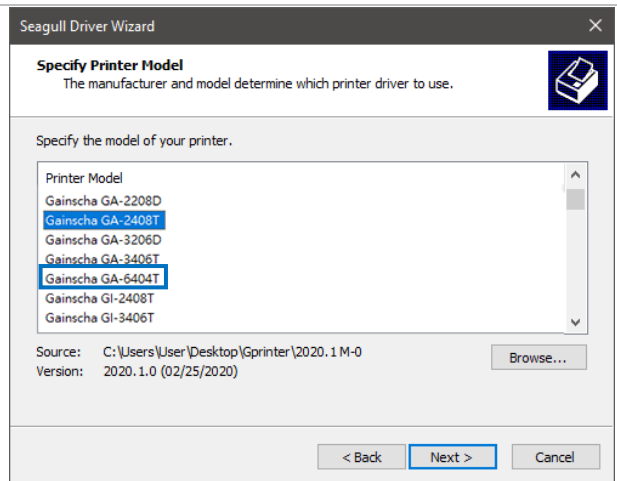
3. Click [Finish].



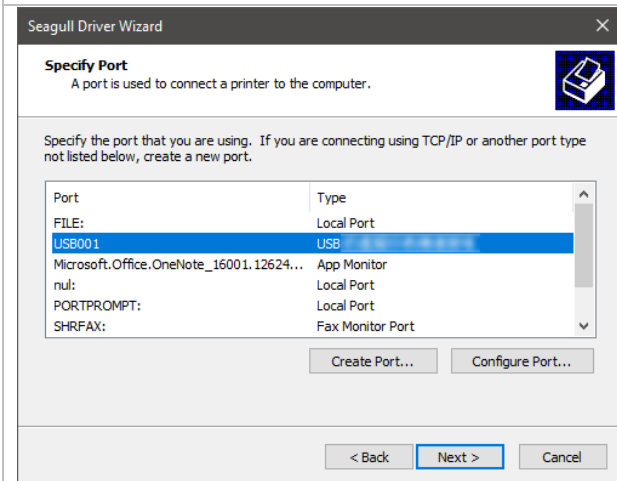
4. Go to installation process, please click [Install Printer Driver], and then click [Next].



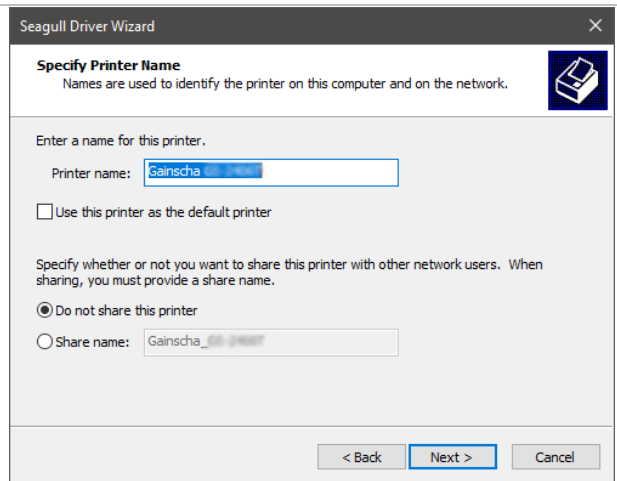
5. Click [Other] and click [Next].



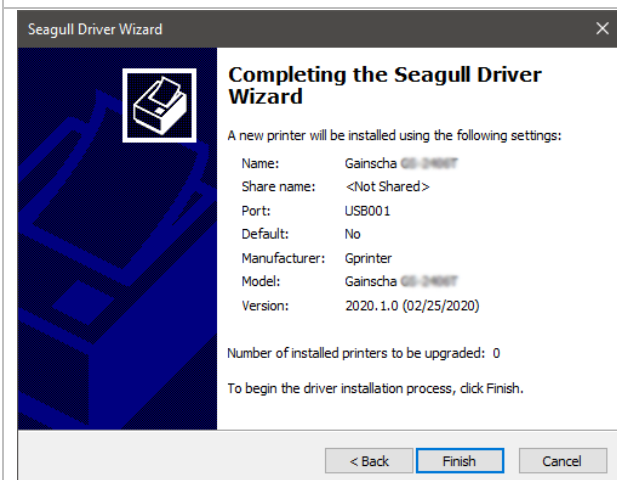
6. Select printer model name, click to install and click [Next].



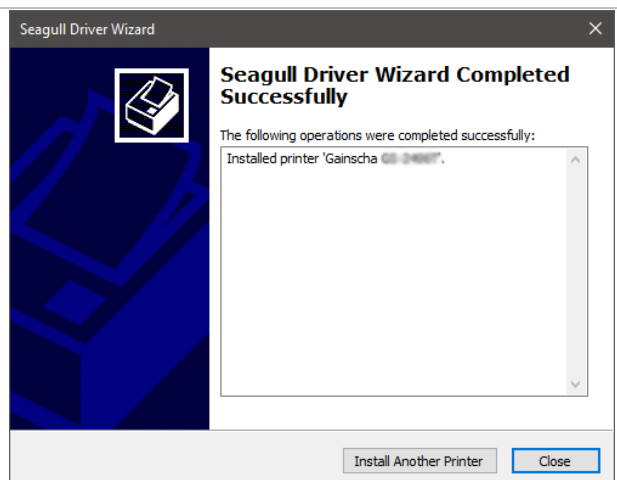
7. Please use a USB cable to connect the printer to the computer, click the corresponding USB interface, and click [Next].



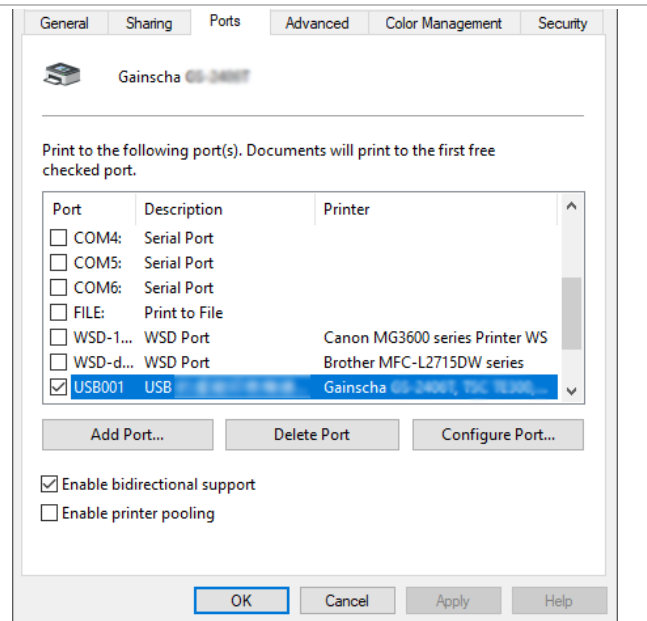
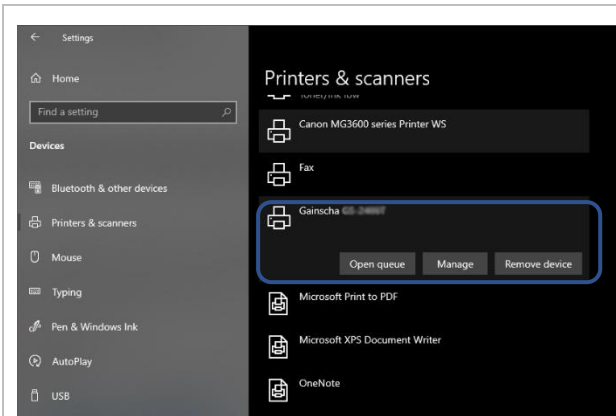
8. Change the printer name as per need, and click [Next].



9. Click [Finish].




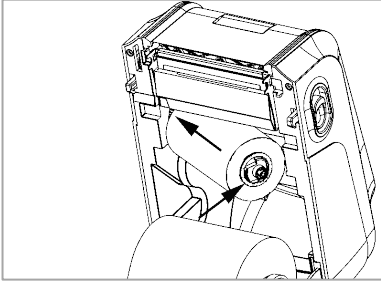
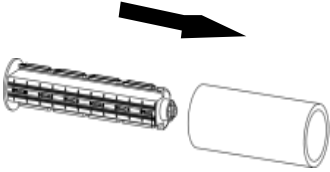
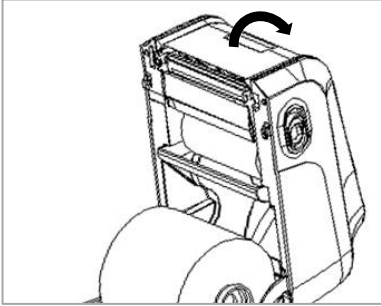
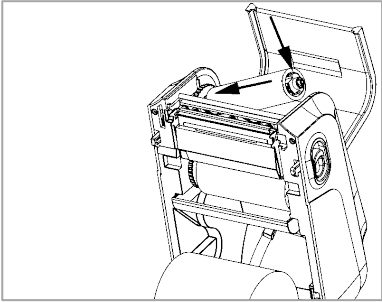
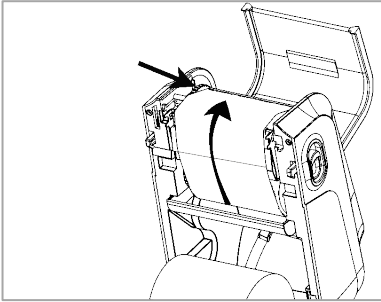
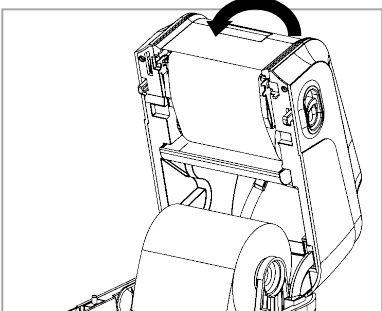
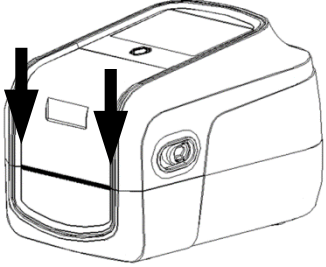
10. The installation is completed, please click [Close].



11. Users can check whether the installation is completed through the following ways:
- If Windows 10, check from [Windows Settings] → [Devices] → [Printers and Scanners].
 - Check from [Control Panel] → [Devices and Printers].

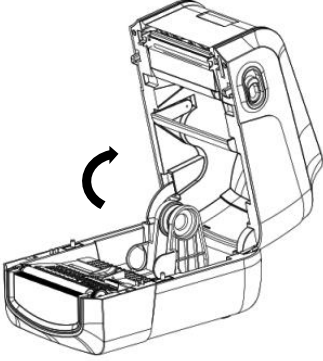
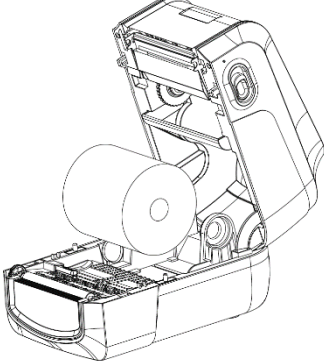
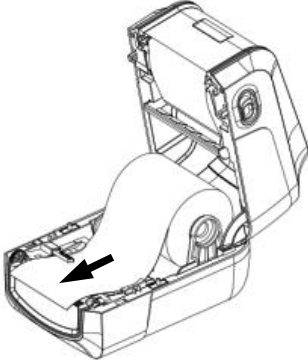
12. Users can change printer interface through the following ways:
- In Windows 10, [Windows Settings] → [Printers and Scanners] → [Devices] → select the corresponding printer model → [Management] → [Printer Content] → [Port] to change different USB port / COM port as per need.
 - From [Control Panel] → [Devices and Printers] → select the corresponding printer model → right-click → [Printer Content] → [Port] to modify it.

3.3 Loading the Ribbon

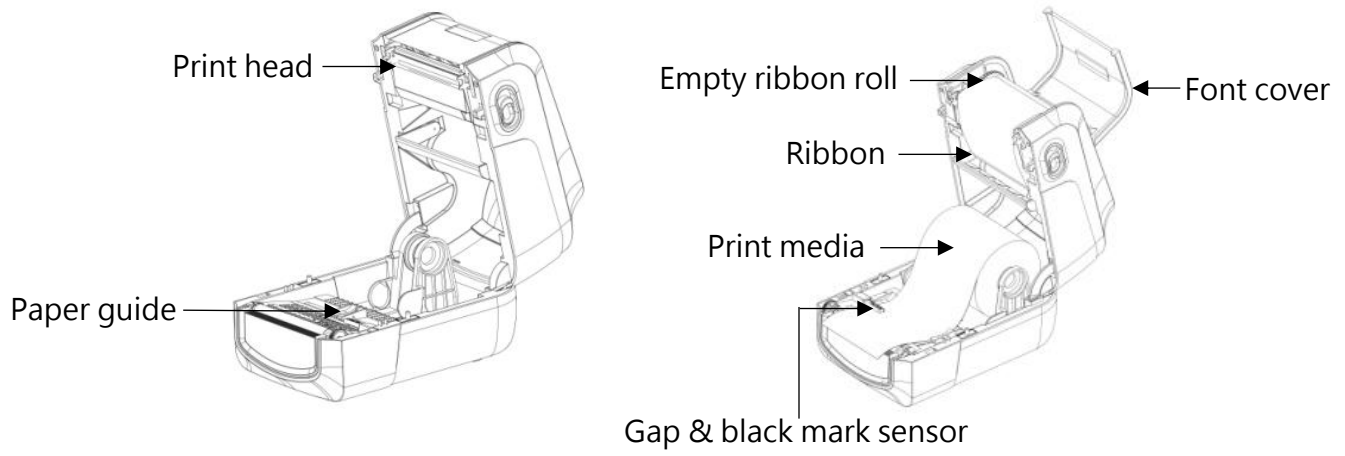
	
<p>1. Insert black ribbon roller into new ribbon.</p>	<p>2. Load ribbon left side first and then right side, fix it well.</p>
	
<p>3. Insert blue ribbon roller into the empty roll for ribbon collecting after printed.</p>	<p>4. Open the front cover.</p>
	
<p>5. Load the empty roll left side first, then right side.</p>	<p>6. Pull out ribbon and stick into the empty roll. Make sure ribbon is flat and smooth when touch print head.</p>
	
<p>7. Close the front cover.</p>	<p>8. Carefully close top cover.</p>

3.4 Loading the Media

3.4.1 Loading the Roll Labels

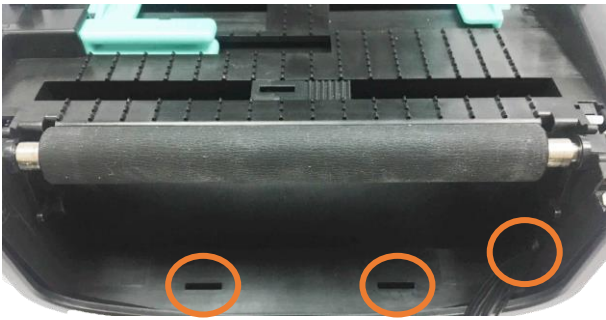
	
<p>1. Press two buttons on printer two sides to lift and open the cover.</p>	<p>2. Load print media into the printer; adjust the paper guide to be same width of print media.</p>
	
<p>3. Pull out the print media till it pass gap sensor and cutter (cutter is optional), complete media loading.</p>	

3.4.2 Ribbon and print media loading diagram



3.5 Loading the Cutter

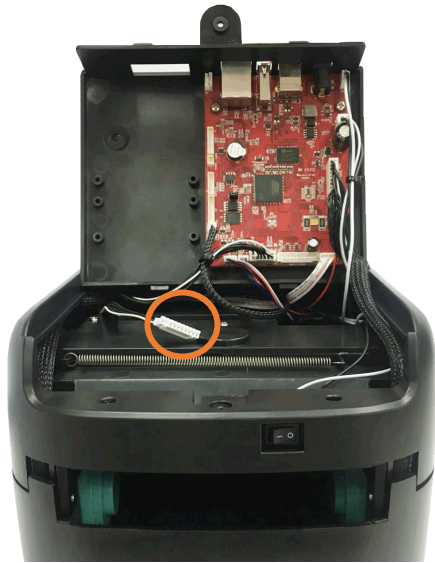
	<p>Depending on the purchase, there will be different cutters.</p>
	<p>1. Push the cover button backwards with both hands to open the printer cover.</p>
	<p>2. Remove the two screws located on the front bezel, and push it out.</p>



3. Align the cutter with the tenon, and place the wire of the cutter into the hole

4. When attaching the cutter, take care not to press it on the wire, lock the cutter with the screw, and cover the upper cover.

5. After closing the upper cover, turn the printer upside down, remove a screw located on the bottom cover, and open the bottom cover.



6. After opening, pull out the wire just put into the hole and insert it into the wafer 1x10P on the main board.



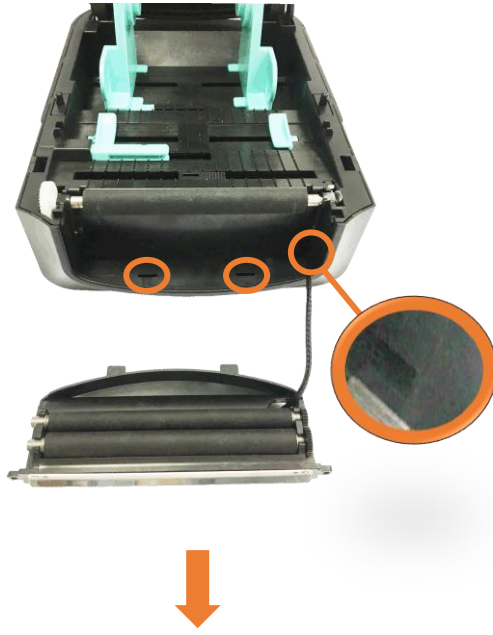
7. After inserting it, cover the bottom cover and lock the screw.



8. Finish.

3.6 Loading the Peeler

	<p>Peeler.</p>
	<p>1. Push the cover button backwards with both hands to open the printer cover.</p>
	<p>2. Remove the two screws located on the front bezel, and push it out.</p>



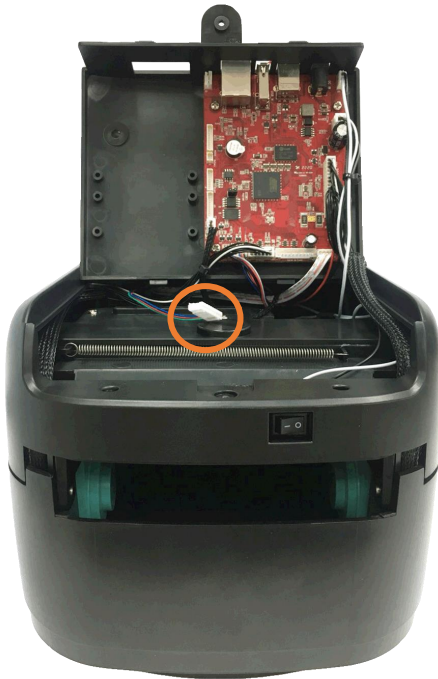
3. Align the peeler with the tenon and place the wire of the peeler into the hole.

4. When closing the peeler, be careful not to press it on the wire, and lock the peeler with screws.





5. Turn the printer upside down, remove a screw located on the bottom cover, and open the bottom cover.



6. After opening, pull out the wire just put into the hole and insert it into the wafer 1x10P on the main board.



7. After inserting it, cover the bottom cover and lock the screw.



8. Finish.

Note: Please clamp the label roll with the fixing tabs and clamp the media with the media guide, so as not to cause the media to roll into the peeler and cause the phenomenon that the media cannot be peeled off.

4. Button Functions

4.1 Regular Button Functions









This printer has one button for feed, pause or cancel errors. There are different functions in different modes, as shown in the following table:

Button	Printer status	Function	Description
Feed button	Ready	Feed	When the printer is ready (Blue LED ON), press this button once, and the label will advance to the front of the next label
Feed button	Wait for push button to print	Print next	When the button Demand function is activated, the printer will stop after printing and wait for the user to press this button before printing the next label.
Feed button	Print mode	Pause	When the printer is printing continuously, pressing the (PAUSE) button will pause printing. The power indicator is blue flashing. Just press the button again, and the print job returns to normal.
Feed button	Error occurred	Cancel error	When the error RED is on, press the (PAUSE) button once, the printer will cancel the error and resume printing function, and reprint the label layout when the error occurs.

4.2 Power-on Utilities

This printer has six power-on functions for setting or testing the printer's hardware. Press these buttons at the same time when the power is turned on, and release the buttons with the light signal to activate these functions.


Follow these steps to enable the boot function:

Event	Description	Status lights	Beep
Self-test	A. Power off the printer B. Make sure the printer is loaded with paper and close the printer cover C. Press and hold the FEED button, and turn on the printer power. When the ribbon Green solid alone, release the button. At this time, the printer will print a self-test page after turning on the printer.		
Enter USB storage device function	A. Power off the printer B. Make sure the printer is loaded with paper and close the printer cover C. Press and hold the FEED button and turn on the printer power. When the comm. Orange solid alone, release the button. At this time, the printer will print the setting value page after turning on the printer.		
Enter dump mode	A. Power off the printer B. Make sure the printer is loaded with paper and close the printer cover C. Press and hold the FEED button, then turn on the printer. When the online Blue and the error Red are on at the same time, release the FEED button, and the printer is now turning on After the printer, a beep is heard, and the printer enters the dump mode at this time, and it will print out "NOW IN DUMP MODE"		
Skip AUTO.BAS	A. Power off the printer B. Press and hold the FEED button and turn on the printer's power. When the error Red solid alone, release the button. At this time, the printer will hear two beeps after turning on the printer, and the printer will skip AUTO.BAS program		
Printer initialization	A. Power off the printer B. Press and hold the FEED button and turn on the printer power. When the online Blue solid alone, release the button. At this time, the printer will hear five beeps after turning on the printer, and the printer will print the meter parameters are restored to the factory default settings		
Ribbon inspection	The machine will automatically detect the status of the ribbon after turning on and in each thermal transfer printing mode.		

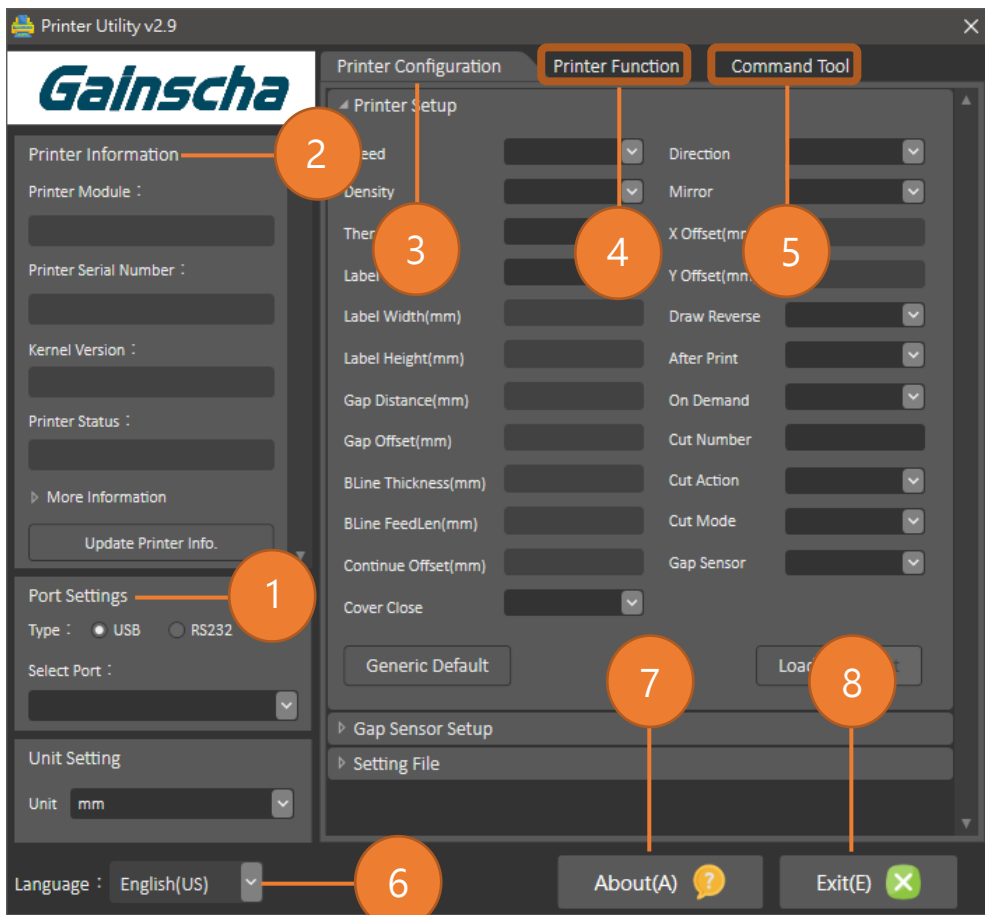
5. PrinterUtility

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.

5.1 Start the PrinterUtility

1. Please mouse over Printer Utility icon  Printer Utility.exe image Double click left mouse button.
2. After opening the main screen, you can see the following function items:

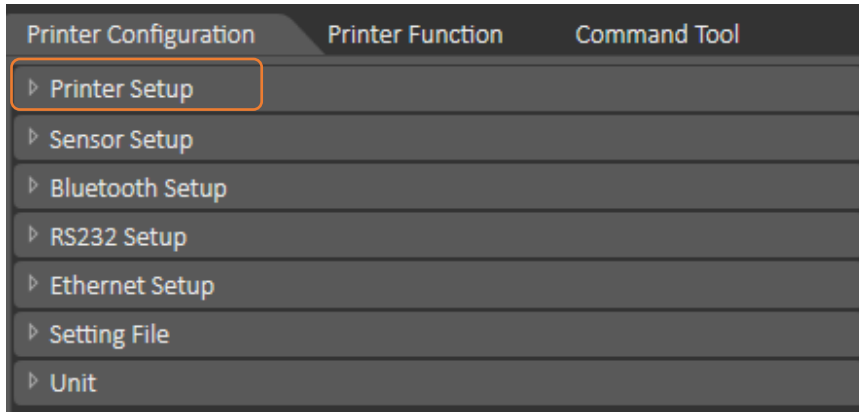
- (1) Port Settings
- (2) Printer Information
- (3) Printer Configuration
- (4) Printer Function
- (5) Command Tool
- (6) Language
- (7) About
- (8) Exit



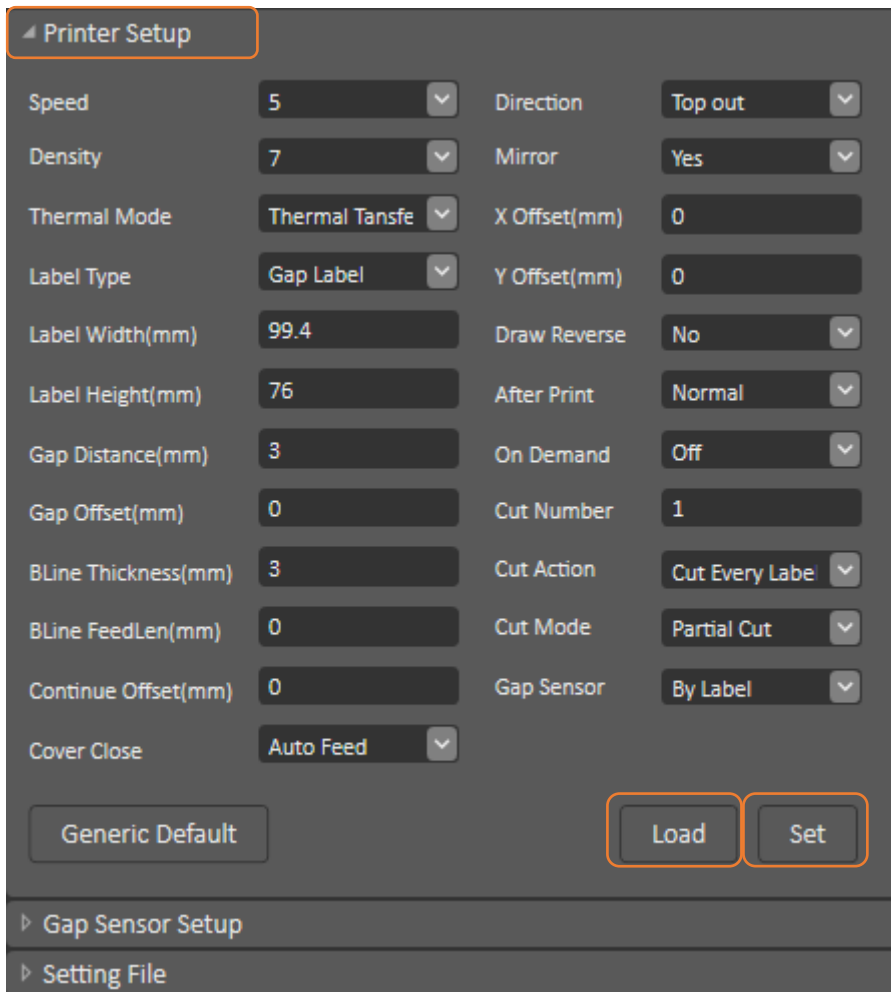
NOTE: If you need more detailed information, please refer to Gainscha official website <http://www.gainscha.com.tw/>

5.2 Printer Function

1. Click the **▶Printer Configuration** and **◀Printer Setup** Can open and close the printer general settings screen.

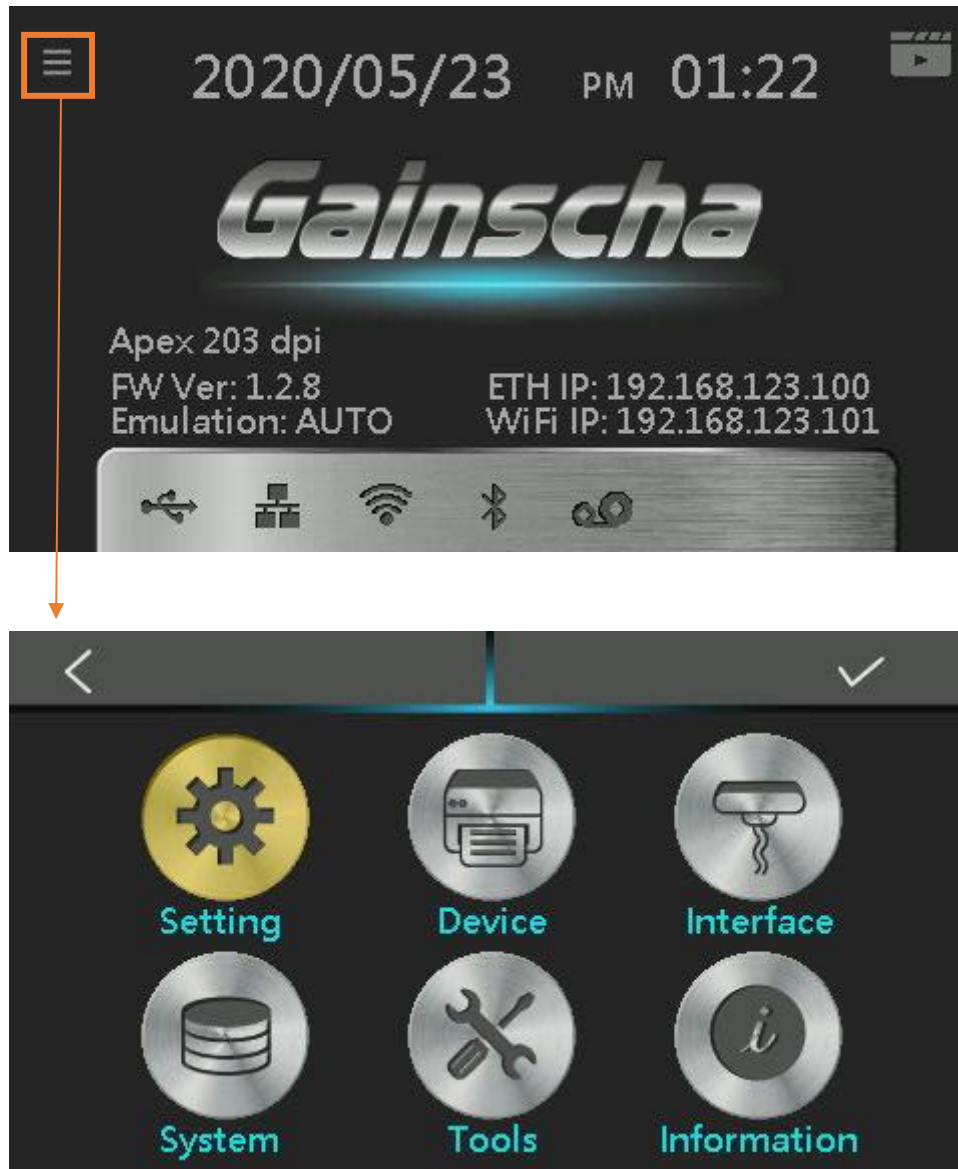


2. Click the **Load** Button to bring out all printer general setting information through the selected communication interface. Click the **Set** button to write the setting value to the printer (please execute the reading function before writing).




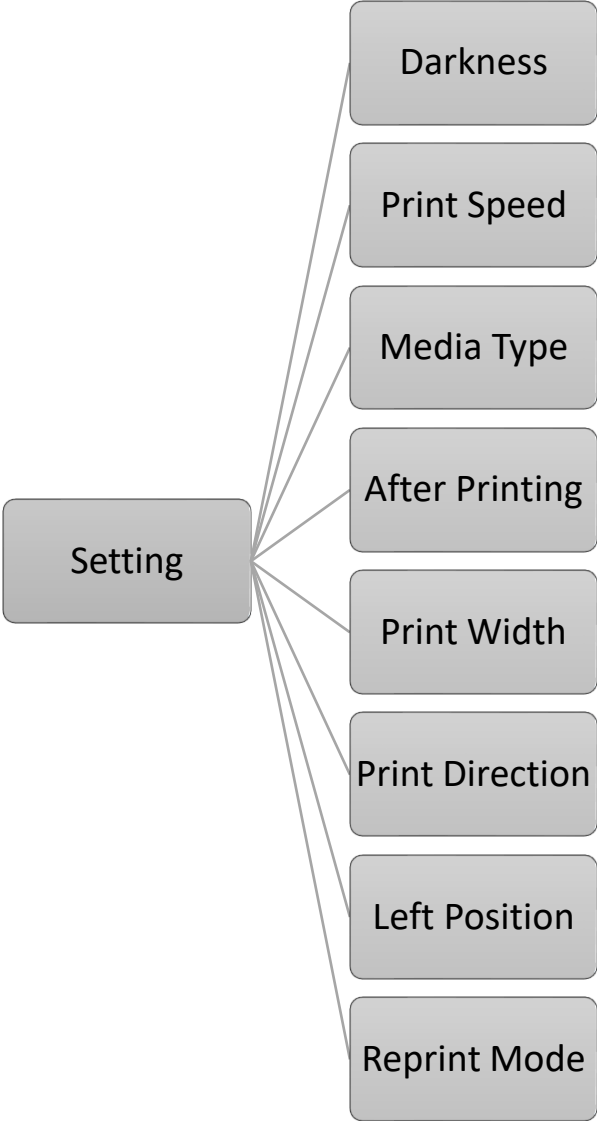
6. LCD Menu Function for GA-2408T and GA-3406T Series

6.1 Enter the Menu



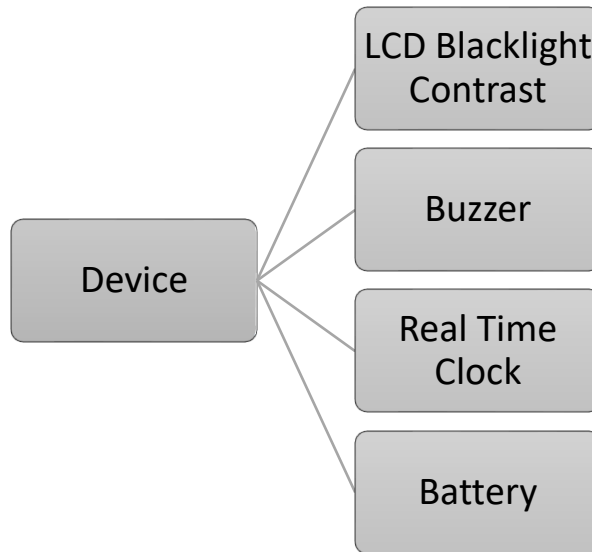
6.2 Menu Overview

There are 6 categories for the menu. You can easy to set the settings of the printer without connecting the computer. Please refer to below for more details.

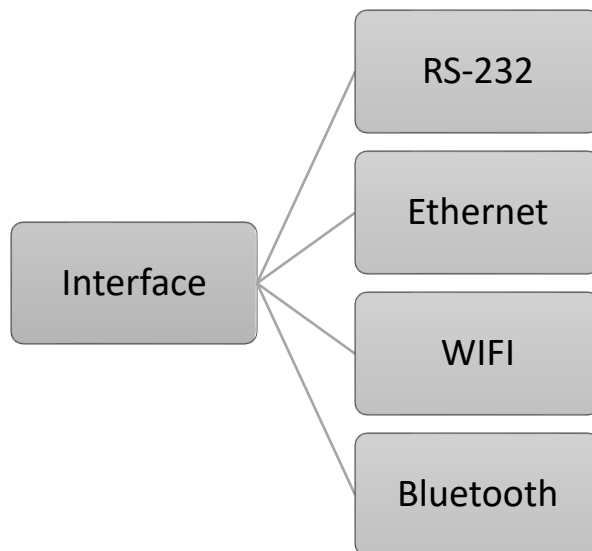
Button icon	function
	<p data-bbox="411 607 1086 645">This "Setting" option can set the printer function.</p>  <pre data-bbox="424 689 1023 1805">graph LR; Setting[Setting] --- Darkness[Darkness]; Setting --- PrintSpeed[Print Speed]; Setting --- MediaType[Media Type]; Setting --- AfterPrinting[After Printing]; Setting --- PrintWidth[Print Width]; Setting --- PrintDirection[Print Direction]; Setting --- LeftPosition[Left Position]; Setting --- ReprintMode[Reprint Mode];</pre>



This "Device" option can set the device function.

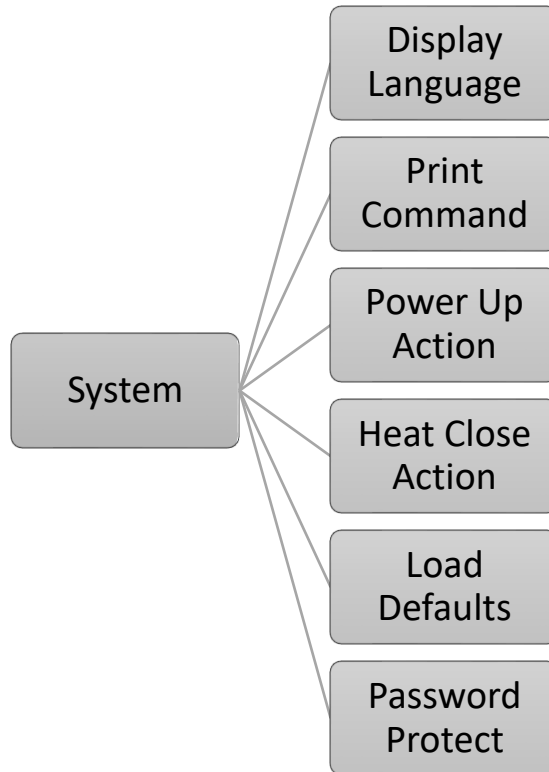


This "Interface" option can set the interface.

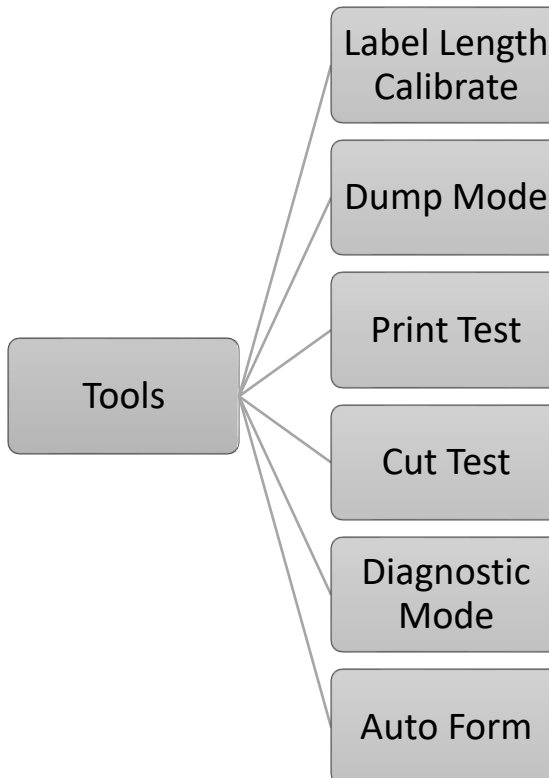





This "System" option can set the system parameters.






This "Tools" option can set the printer operation tool.



	<p>This "Information" option can inquire about the printer information.</p> <div data-bbox="438 342 671 470" style="border: 1px solid gray; padding: 5px; width: fit-content; margin: 10px auto;"> <p>Information</p> </div>
---	--

6.3 Error and screen message introduction

Screen message	Description
	<p>This message is head open.</p>
	<p>This message is ribbon out.</p>
	<p>This message is gap out.</p>

 <p>The image shows a red error message screen. On the left is a white icon of a label roll with a red prohibition sign over it. To the right of the icon, the text reads "Error Label Out" in white, with "QTY: 0" below it. At the bottom of the screen, there are three small icons: a Wi-Fi symbol, a Bluetooth symbol, and a speaker symbol.</p>	<p>This message is label out.</p>
 <p>The image shows a red error message screen. On the left is a white icon of a printer head with a red exclamation mark. To the right of the icon, the text reads "Error No TPH" in white, with "QTY: 0" below it. At the bottom of the screen, there are three small icons: a Wi-Fi symbol, a Bluetooth symbol, and a speaker symbol.</p>	<p>This message is no print head.</p>
 <p>The image shows a red error message screen. On the left is a white icon of a printer head with a red exclamation mark. To the right of the icon, the text reads "Error No Cutter" in white, with "QTY: 0" below it. At the bottom of the screen, there are three small icons: a Wi-Fi symbol, a Bluetooth symbol, and a speaker symbol.</p>	<p>This message is no cutter.</p>
 <p>The image shows a red error message screen. On the left is a white icon of a printer head with a red exclamation mark. To the right of the icon, the text reads "Error No Peeler" in white, with "QTY: 0" below it. At the bottom of the screen, there are three small icons: a Wi-Fi symbol, a Bluetooth symbol, and a speaker symbol.</p>	<p>This message is no peeler.</p>
 <p>The image shows a red error message screen. On the left is a white icon of a printer head with a red exclamation mark. To the right of the icon, the text reads "Error Cutter Jam" in white, with "QTY: 0" below it. At the bottom of the screen, there are three small icons: a Wi-Fi symbol, a Bluetooth symbol, and a speaker symbol.</p>	<p>This message is cutter jam.</p>

 <p>The image shows a red error message banner on a device screen. The banner contains a white icon of a document with a red exclamation mark, the text "Error Memory Error", and "QTY: 0". Below the banner, the top part of a silver device is visible with three icons: a signal strength indicator, a Wi-Fi icon, and a battery icon.</p>	<p>This message is memory error.</p>
 <p>The image shows a red error message banner on a device screen. The banner contains a white icon of a document with a red exclamation mark, the text "Error Label Error", and "QTY: 0". Below the banner, the top part of a silver device is visible with three icons: a signal strength indicator, a Wi-Fi icon, and a battery icon.</p>	<p>This message is label error.</p>
 <p>The image shows a red error message banner on a device screen. The banner contains a white icon of a thermometer with a red exclamation mark, the text "Error TPH Over Heat", and "QTY: 0". Below the banner, the top part of a silver device is visible with three icons: a signal strength indicator, a Wi-Fi icon, and a battery icon.</p>	<p>This message is print head over heat.</p>
 <p>The image shows an orange pause message banner on a device screen. The banner contains a white icon of a pause symbol, the text "PAUSE", and "QTY: 0". Below the banner, the top part of a silver device is visible with three icons: a signal strength indicator, a Wi-Fi icon, and a battery icon.</p>	<p>This message is pause.</p>
 <p>The image shows an orange demand message banner on a device screen. The banner contains a white icon of a hand pointing, the text "DEMAND", and "QTY: 0". Below the banner, the top part of a silver device is visible with three icons: a signal strength indicator, a Wi-Fi icon, and a battery icon.</p>	<p>This message is demand.</p>



This message is waiting for take.



This message is printing.

7. Troubleshooting

7.1 Common Problems

The following guide lists the most common problems that may be encountered when operating this bar code printer. If the printer still does not function after all suggested solutions have been invoked, please contact the Customer Service Department of your purchased reseller or distributor for assistance.

Problem	Possible Cause	Recovery Procedure
Power indicator does not illuminate.	<ul style="list-style-type: none"> ● The power cord is not properly connected. 	<ul style="list-style-type: none"> ● Plug the power cord in printer and outlet. ● Switch the printer on.
Out of ribbon	<ul style="list-style-type: none"> ● Out of ribbon. ● The ribbon installation path is incorrect. 	<ul style="list-style-type: none"> ● Install new ribbon. ● Follow the steps for installing the ribbon to reinstall.
Out of paper	<ul style="list-style-type: none"> ● Out of paper. ● The paper installation path is incorrect. ● Gap / black mark sensor detection is incorrect. 	<ul style="list-style-type: none"> ● Install new paper. ● Follow the steps for installing the paper to reinstall. ● Recalibrate the label sensor.
Paper jam	<ul style="list-style-type: none"> ● Gap / black mark sensor detection is incorrect. ● The label size is set incorrectly. ● Label may be blocked inside the printer. 	<ul style="list-style-type: none"> ● Recalibrate the label sensor. ● Set the correct label size. ● Cleaning the inside of the printer.
Unable to print	<ul style="list-style-type: none"> ● Cable is not well connected to serial or USB interface or parallel port. 	<ul style="list-style-type: none"> ● Re-connect cable to interface. ● Change a new cable. ● Ribbon and media are not compatible. ● Verify the ribbon-inked side. ● Reload the ribbon again. ● Clean the print head. ● The print density setting is incorrect. ● Print head's harness connector is not well connected with printhead. Turn off the printer and plug the connector again.

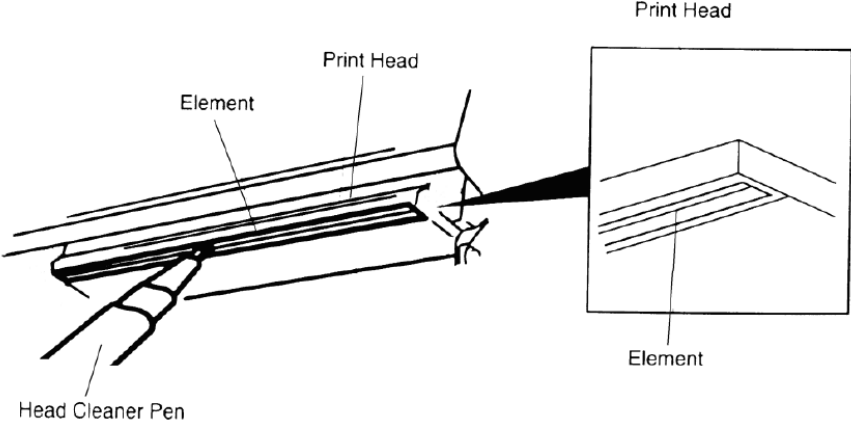
Poor print quality	<ul style="list-style-type: none"> ● Ribbon and media is loaded incorrectly. ● Dust or adhesive accumulation on the print head. ● Print density is not set properly. ● Printhead element is damaged. ● Ribbon and media are incompatible. 	<ul style="list-style-type: none"> ● Reload the supply. ● Clean the print head. ● Clean the platen roller. ● Adjust the print density and print speed. ● Run printer self-test and check the print head test pattern if there is dot missing in the pattern. ● Change proper ribbon or proper label media. ● The print head mechanism does not latch the print head properly.
Skip labels when printing	<ul style="list-style-type: none"> ● Label size is not specified properly. ● Sensor sensitivity is not set properly. ● The media sensor is covered with dust. 	<ul style="list-style-type: none"> ● Check if label size is setup correctly. ● Calibrate the sensor by Auto Gap or Manual Gap options. ● Clear the GAP/Black mark sensor by blower.
The printing position of small label is incorrect	<ul style="list-style-type: none"> ● Media sensor sensitivity is not set properly. ● Label size is incorrect. ● The vertical offset setting in the driver is incorrect. 	<ul style="list-style-type: none"> ● Calibrate the sensor sensitivity again. ● Set the correct label size and gap size. ● If using the software BarTender, please set the vertical offset in the driver.
Missing printing on the left or right side of label	<ul style="list-style-type: none"> ● Wrong label size setup. 	<ul style="list-style-type: none"> ● Set the correct label size.
Wrinkle problem	<ul style="list-style-type: none"> ● Ribbon installation is incorrect. ● Media installation is incorrect. ● Print density is incorrect. ● Media feeding is incorrect. 	<ul style="list-style-type: none"> ● Please set the suitable density to have good print quality. ● Make sure the label guide touch the edge of the media guide.
Gray line on the blank label	<ul style="list-style-type: none"> ● The print head is dirty. ● The platen roller is dirty. 	<ul style="list-style-type: none"> ● Clean the print head. ● Clean the platen roller
Irregular printing	<ul style="list-style-type: none"> ● The printer is in Hex Dump mode. 	<ul style="list-style-type: none"> ● Turn off and on the printer to skip the dump mode.

8. Maintenance

This session presents the clean tools and methods to maintain your printer.

1. Please use one of following material to clean the printer.
 - Cotton swab
 - Lint-free cloth
 - Vacuum / Blower brush
 - 100% ethanol

2. The cleaning process is described as following,

Printer Part	Method
Print Head	<ol style="list-style-type: none"> 1. Always turn off the printer before cleaning the print head. 2. Allow the print head to cool for a minimum of one minute. 3. Use a cotton swab and 100% ethanol to clean the print head surface. 
Platen Roller	<ol style="list-style-type: none"> 1. Turn the power off. 2. Rotate the platen roller and wipe it thoroughly with 100% ethanol and a cotton swab, or lint-free cloth.
Tear Bar/Peel Bar	Use the lint-free cloth with 100% ethanol to wipe it.
Sensor	Compressed air or vacuum
Exterior	Wipe it with water-dampened cloth
Interior	Brush or vacuum

NOTE:

- Do not touch printer head by hand. If you touch it careless, please use ethanol to clean it.
- Please use 100% Ethenol.DO NOT use medical alcohol, which may damage the printer head.
- Regularly clean the print head and supply sensors once change a new ribbon to keep printer performance and extend printer life.
- The maximum printing ratio per dot line is 15% for this printer. To print the full web black line, the maximum black line height is limited to 40 dots, which is 5mm for 203 DPI resolution printer and 3.3mm for 300 DPI resolution printer.

9. Revise History

Date	Version	Content
2020/8/10	Ver.1.0.1	Modify chapter 4.2 Power-on Utilities Modify GA-2406TM / GA-3405TM renamed to GA-2408TM / GA-3406TM Delete Extended plate in chapter 1.2.2 Printer Optional Features Delete chapter 3.4.3 External Label Roll Mount Installation (Option) Modify 4.1 Regular Button Function
2021/1/15	Ver.1.0.2	Modify chapter 1.2.1 Printer Standard Features
2021/1/15	Ver.1.0.3	Modify GA-2408TM / GA-3406TM renamed to GA-2408T / GA-3406T
2021/1/20	Ver.1.0.4	Modify GA-2406T / GA-3405T renamed to GA-2408T / GA-3406T Modify chapter 1.2.1 Printer Standard Features Modify chapter 4.1 Regular Button Functions