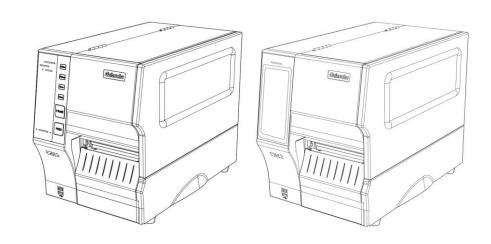


INTELLIGENT SERIES

GI-2408T PLUS / GI-3406T PLUS

4" Industrial Thermal Transfer Barcode 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.

WARNING

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.

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 browse our 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 new high-performance GI PLUS Series was designed to deliver the cleanest and high quality bar codes. It features a die-cast print mechanism housed in a very strong yet lightweight cabinet. This new design results in a more durable printer that is suited for your most heavy-duty demand cycles.

There have T Series, and includes 203 dpi / 300 dpi series, which can be applied to printing very small 2D barcodes, graphics, fine print and other ultrahigh-resolution images.

The T Series standard printers are loaded with standard features including four color lights and two menu buttons; The T Series empower printers are loaded with standard features including a 4.3" color touch display and one menu button, support for 450 meter long ribbons, 8" OD media rolls, built-in Ethernet, 1 or 3 USB hosts for keyboard and scanner connections, USB 2.0, serial interfaces, optional internal Bluetooth module and WIFI module.

Fonts and bar codes can be printed in four directions. This model has a built-in high-quality and efficient True Type Font engine. With a flexible firmware design, users can also download True Type Font from the computer to the printer's memory. In addition to scalable fonts, eight different sizes of alphanumeric maps (bitmap font) are provided.

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

- Applications
 - o Manufacturing & Warehousing
 - Work in Progress
 - Item Labels
 - Instruction labels
 - Agency labels
 - Compliance labels
 - Logistics management labels
 - Electronics labels
 - Industrial-duty Printing
 - o Parcel Post
 - Shipping/ Receiving Labels

- o Healthcare
 - Patient Identification
 - Pharmacy
 - Specimen Identification
- o Retail Marking
 - Price tags
 - Shelf labels
 - Jewelry tags
 - Asset management labels
 - Care labels
- o Small Office/ Home Office

1.2 Product Features

1.2.1 Printer Standard Features

MODEL	GI-2408T PLUS	GI-3406T PLUS	GI-2410T PLUS	GI-3407T PLUS
Grade	Standard	Standard	Empower	Empower
Resolution	8dots/mm (203DPI)	12dots/mm	8dots/mm	12dots/mm
		(300DPI)	(203DPI)	(300DPI)
Printing Method		Thermal Transfe	r &Direct Thermal	
Max. print speed	203mm(8")/	152mm(6")/	254mm(10")/	177.8mm(7")/
	second	second	second	second
Max. print width	102 mm (4")	106.9 mm (4.2")	104 mm (4.1")	108.4 mm (4.27")
Max. print length	2,286mm (90")	1,016mm (40")	2,286mm (90")	1,016mm (40")
CPU		600 MHZ, 33	2 bits, ARM9	
Memory RAM	128 MB SDRAM		256 MB SDRAM	
Memory ROM	128 MB Flash Memory 256 MB Flash Memory			-у
Interface	 USB 2.0 High Speed 480Mbps USB Host 2.0, for scanner or PC keyboard RS-232 Internal Ethernet 10/100Mbps Internal Bluetooth 4.0 (factory option) Internal WiFi (factory option) I/O port (factory option) 			
Real Time Clock	Standard			
Buzzer	Standard			
Dealer options	Guillotine cutter (full cut or partial cut)Peeler			
Sensors	 Gap transmissive sensor (position adjustable) Black mark reflective sensor (position adjustable) Head open sensor Ribbon out sensor Label begin sensor 			
Power	Internal universal swit	tching power supply		

	Input: AC 100-240V, 1.5A, 50-60Hz, Output: DC 24V, 5A, 120W				
User Interface	1 power switch2 buttons (Feed4 LEDs (Online, Communication	Error, Ribbon,	LEDs (Online, E Capacitive Touc	1 buttons (Feed), 1 Error, Ribbon status) ch Screen, TFT LCD or, 272 x 480 pixels,	
Internal fonts	8 alpha-numericTrue type font el	bitmap fonts	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 F	PDF417, MaxiCode, Az	tec Code, Data Matrix	
Rotation	Font and barcode support 0, 90, 180, 270 degree				
Printer language	Compatible to TSPL, EPL, ZPL, ZPL II, DPL				
Ribbon	450 M long, max. OD 105 mm, 1" core (ink coated outside)				
Ribbon width	Max.110mm (4.3")				
Media type	Continuous, die-cut, black mark, fan-fold (outside wound)				
Media width	20~120 mm (0.78" ~ 4.72")				
Media thickness	0.06~0.254mm (2.36 ~ 10 mil)				
Media core diameter	25.4 mm ~ 76.2 mm (1" ~ 3")				
Label roll capacity	203 mm (8") OD				
Label length	5 ~2,286 mm	5 ~1,016 mm	5 ~2,286 mm	5 ~1,016 mm	
	(0.2" ~ 90")	(0.2" ~40")	(0.2" ~ 90")	(0.2" ~40")	
Physical dimension	444mm(L)*269mm(W)*339mm(H)				
Net Weight		12.	8kg		
Enclosure	Die-cast based print mechanism/Metal cover with large clear media view window				

Safety regulation	FCC Class A (Voltage specification is 110V, 200V is not supported), 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	 Windows labeling software CD disk Quick start guide USB cable Power cord

1.2.2 Printer Optional Features

Product option feature	User	Dealer	Factory
	options	options	options
Internal Bluetooth module in front panel		0	0
Internal WIFI module in front panel		0	0
Peel-off module assembly		0	0
Textile Care Cutter			0

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

2. Operations Overview

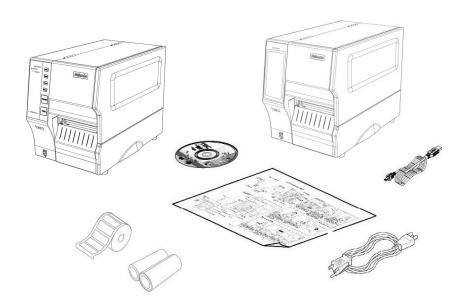
2.1 Unpacking and Inspection

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 Windows labeling software/Windows driver CD disk
- One USB interface cable
- One pair of one core ribbon samples
- One core coated art paper roll

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

(Standard) GI-2408T PLUS and GI-3406T PLUS Series



- 1. Media view window
- 2. Printer cover handle
- 3. Paper exit chute
- Front panel buttons and indicator

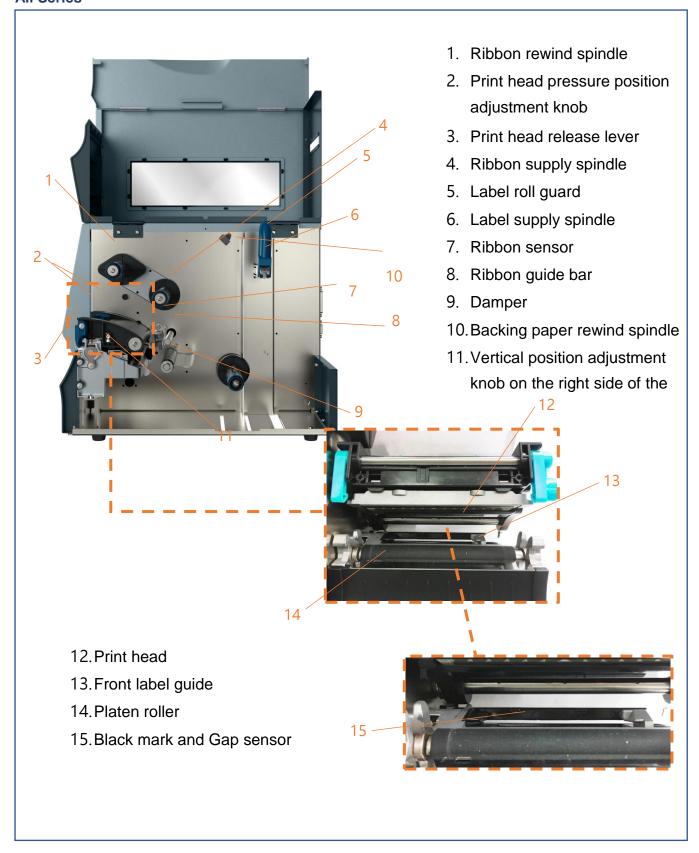
(Empower) GI-2410T PLUS, GI-3407T PLUS Series



- 1. Media view window
- 2. Printer cover handle
- 3. Paper exit chute
- 4. LCD display

2.2.2 Interior View

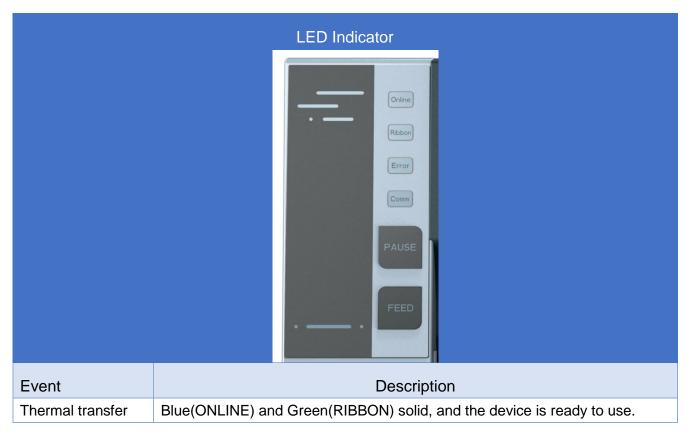
All Series



2.2.3 Front View

(Standard) GI-2408T PLUS and GI-3406T PLUS Series(Contains LED indicator's function introduction)





mode ready	
Direct thermal	Blue(ONLINE) solid, and the device is ready to use.
mode ready	
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	When label gap/black can't be found, a beep sound will be made, and
mark error	Red(ERROR) Blue(ONLINE) flash
	Note: This error message is on (included) firmware version "65B56R8" and
	later, classified as "Out of paper".
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	When print head overheated ,a beep sound will be made, and
overheated	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	When the RJ45 network cable is plugged in, and the connection is normal, and
ready	the WIFI's AP or STA mode is connected, the orange (COMM) will be solid for
	2 seconds and the orange(COMM) flash.

(Empower) GI-2410T PLUS, GI-3407T PLUS Series (Contains LCD monitor operation introduction)





Operation buttons				
Buttons	i	Function		
FEED butt		In the ready state, press this button, the machine will spit a sheet of paper		
PAUSE button PAUSE		In the printing state, press this button, the machine will stop immediately		
Main page icons				
Indicated icon		Indication		

Main page icons			
Indicated icon	Indication		
-	Ethernet is connected		
•	USB HID is connected, ex: USB scanner、USB keyboard		
00	Thermal transfer mode, use ribbon function		

2.2.4 Rear view

All series



- Ethernet 10/100Mbps interface
- 2. RS-232 interface
- 3. USB interface
- USB host (For USB keyboard or scanner)
- 5. Power switch
- 6. Power cord socket
- External label entrance chute

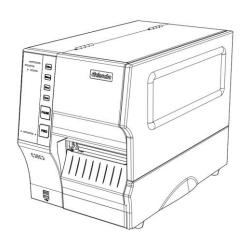
3. Setup

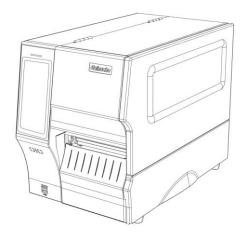
3.1 Setting up the Printer

- 1. Place the printer on a flat, secure surface.
- 2. Make sure the power switch is off.
- 3. Connect the printer to the computer with the provided USB cable.
- 4. Plug the power cord into the AC power cord socket at the rear of the printer, and then plug the power cord into a properly grounded power outlet.

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.

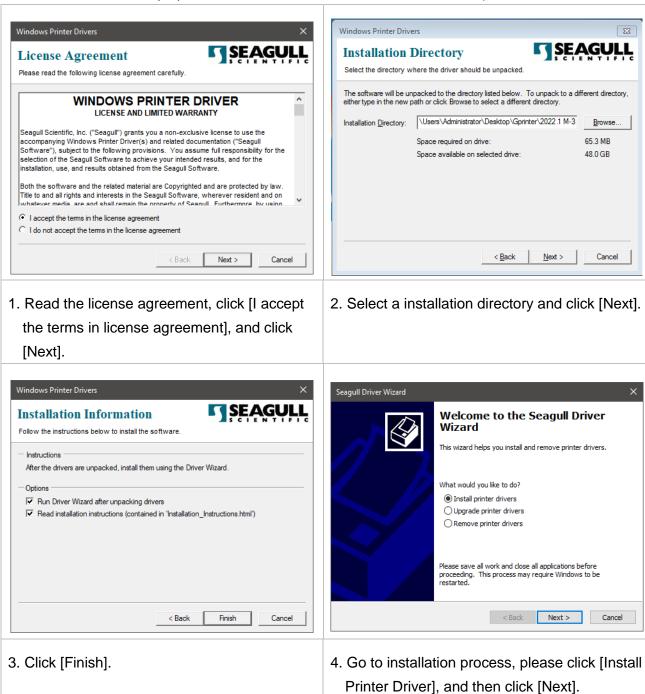




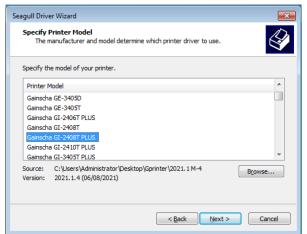
3.2 Install Printer Driver (all series)



(Recommended to install the printer driver model for 203 dpi, please install GI-2408T PLUS/ GI-2410T PLUS, 300 dpi, please install GI-3406T PLUS/GI-3407T PLUS)

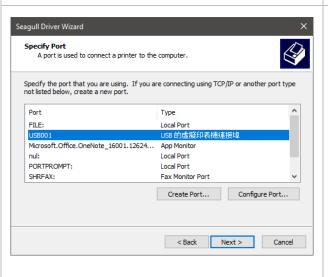


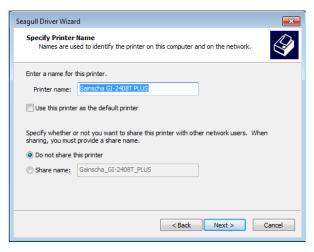




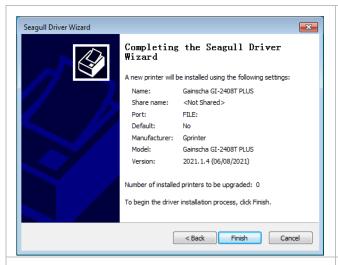
5. Click [Other] and click [Next].

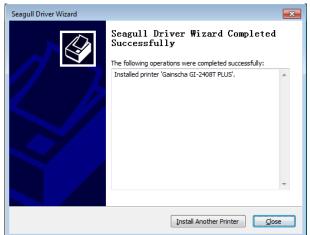
6. Select printer model name, click to install and click [Next].



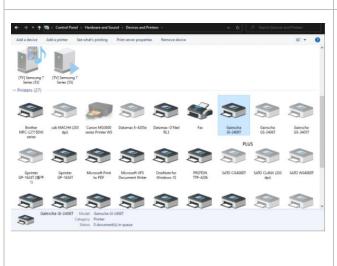


- Please use a USB cable to connect the printer to the computer, click the corresponding USB interface, and click [Next].
- Change the printer name as per need, and click [Next].

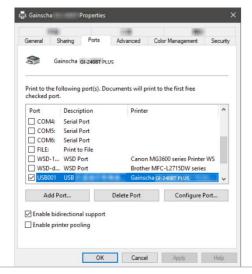




9. Click [Finish].



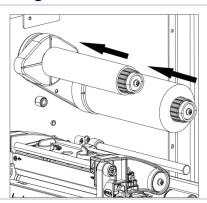
10. The installation is completed, please click [Close].



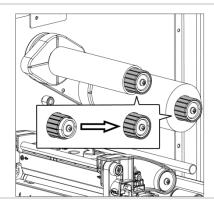
- 11. Users can check whether the installation is completed through the following ways:
- a. If Windows 10, check from [Windows Settings]
 → [Devices] → [Printers and Scanners].
- b. Check from [Control Panel] → [Devices and Printers].
- 12. Users can change printer interface through the following ways:
- a. 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.
- b. From [Control Panel] → [Devices and Printers] → select the corresponding printer model → right-click → [Printer Content] → [Port] to modify it.

3.3 Loading the Ribbon

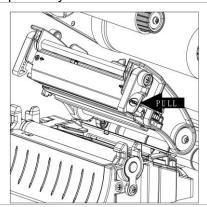
3.3.1 Loading the Ribbon



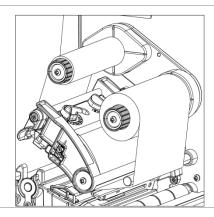
 Lift the printer cover handle, and install the ribbon and empty ribbon roll on the ribbon supply spindle and ribbon rewind spindle, respectively.



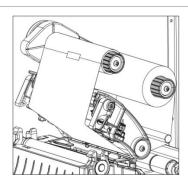
2. Pull the movable offsets of the ribbon supply spindle and ribbon rewind spindle.



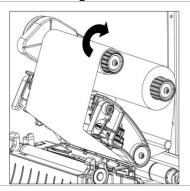
3. Pull the Print head release lever to open print head mechanism.



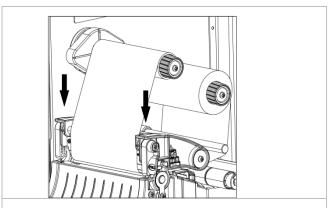
4. Thread ribbon below the ribbon guide bar through ribbon sensor slot. (See the "Ribbon Loading Path" illustration below).



5. Fix the smooth and wrinkled front end of the ribbon on the empty ribbon roll.



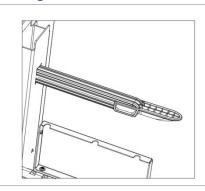
6. Wind the ribbon rewind spindle clockwise roughly 3~5 circles until the ribbon is smooth, properly stretched and wrinkle-free.



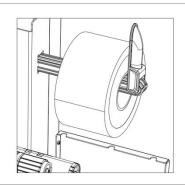
Close the print head mechanism by pushing down the both sides of the print head release lever.

3.4 Loading the Media

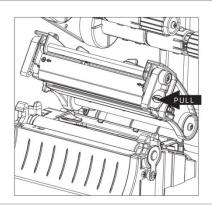
3.4.1 Loading the Media



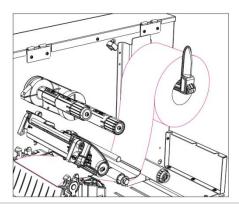
1. Move the label roll guard horizontally to the end of label spindle, then flip down the label roll guard.



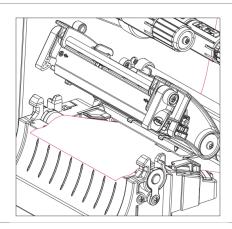
2. Place the media roll on the label supply spindle and use label roll guard to fix it.

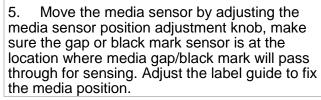


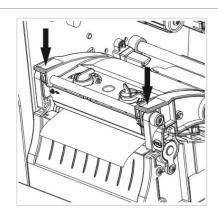
3. Pull the Print head release lever to open print head mechanism.



4. Install the label through the media guide bar, damper, media sensor, and label guide to install the media. (See the "Media Loading Path" illustration below).

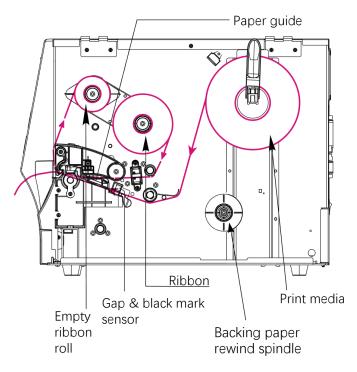






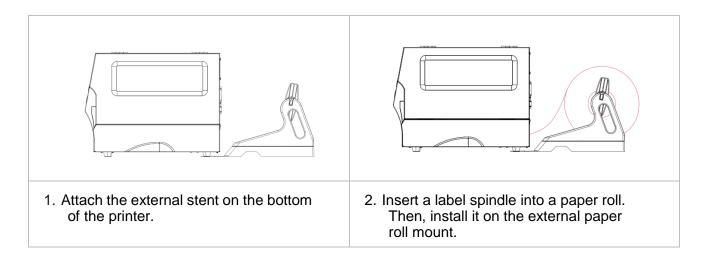
6. Close the print head mechanism on both sides and make sure the latches are engaged securely. Set media sensor type and calibrate the selected sensor.

3.4.2 Media loading path



 Model specifications, accessories, parts and programs are mainly based on the actual machine, subject to change without prior notice.

3.4.3 External Label Roll Mount Installation (Option)



4. Adjustment Knob

4.1 Print Head Pressure Adjustment Knob

The print head pressure adjustment knob has 5 levels of adjustment. Press down the adjustment knob and turn the adjustment knob left and right to adjust the print head pressure.



Print Head Pressure Adjustment Knob

Note: For the label width less than 2 inches, please fix the Print head pressure adjustment knob inside the edge of the label as possible (prevent the unnecessary friction between the print head and platen roller).

4.2 Vertical position adjustment knob on the right side of the print head

Because the printer's paper alignment is to the left side of mechanism, different media widths require the different pressure to print the label correctly. Therefore, it may require to adjust the vertical position adjustment knob on the right side of the print head and get the best print quality.



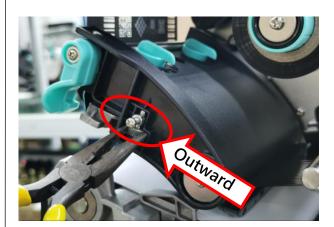
The left side of the label is unclear.



The right side of the label is unclear.

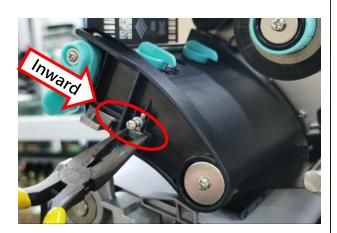


If the left side of label is unclear, it means the pressure on the right side is higher than the left side. Please follow the steps below:



First, loose the thumbscrew, and adjust the knob to the left side. Then, print a self-test page. Follow the steps to adjust until the pressure on both sides are equal.

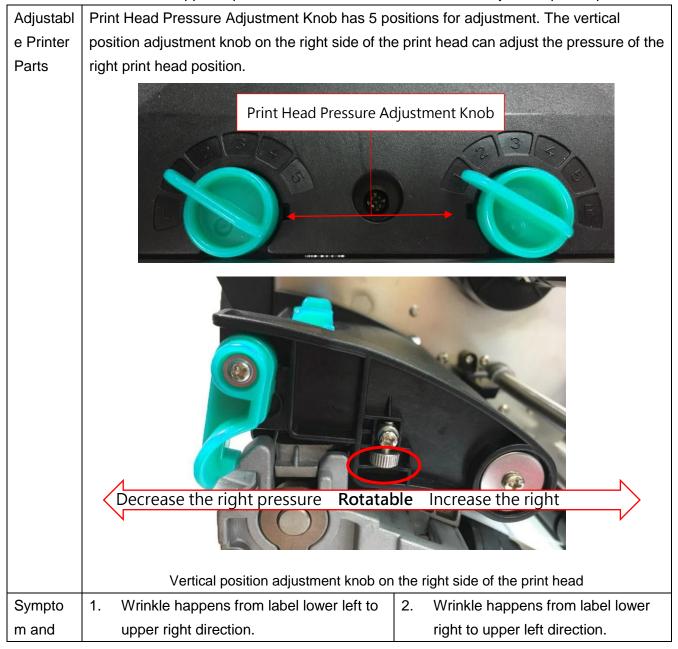
If the right side of label is unclear, it means the pressure on the left side is higher than the right side. Please follow the steps below:



First, loose the thumbscrew, and adjust the knob to the right side. Then, print a self-test page. Follow the steps to adjust until the pressure on both sides are equal.

4.3 Mechanism Fine Adjustment to Avoid Ribbon Wrinkles

This printer has been fully tested before delivery. There should be no ribbon wrinkle presented on the media for general-purpose printing application. Ribbon wrinkle is related to the media width, thickness, print head pressure balance, ribbon film characteristics, print darkness setting...etc. In case the ribbon wrinkle happens, please follow the instructions below to adjust the printer parts.



Wrinkle Example



Feed direction



If the wrinkle on the label starts from the lower left side to upper right side, please do following adjustment.



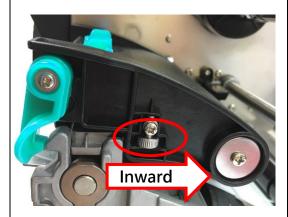
- Please switch the vertical position adjustment knob on the right side of the print head per 1 level and print the label again to check if the wrinkle is gone.
- If the ribbon wrinkle still can't improve after switch the vertical position adjustment knob on the right side of the print head, please adjust the print head pressure adjustment knob per 1 level again to check if the wrinkle is gone.



Feed direction



If the wrinkle on the label starts from the lower right side to upper left side, please do following adjustment.



- Please switch the vertical position adjustment knob on the right side of the print head per 1 level and print the label again to check if the wrinkle is gone.
- If the ribbon wrinkle still can't improve after switch the vertical position adjustment knob on the right side of the print head, please adjust the print head pressure adjustment knob per 1 level again to check if the wrinkle is gone.

5. Button Functions

5.1 Regular Button Functions

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

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

5.2 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.

Event	Description	Status	Веер
		lights	
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. When you hear a beep,		
	release the FEED button. At this time, the printer will print a self-test page.		
Enter USB	A. Power off the printer		4))
storage	B. Make sure the printer is loaded with paper and close the printer cover		
device	C. Press and hold the PAUSE button and turn on the printer. When you hear a beep,		
function	release the PAUSE button, and the printer's storage device will appear on the		
	computer.		
Enter dump	A. Power off the printer		4))
mode	B. Make sure the printer is loaded with paper and close the printer cover	Online	
	C. Press and hold the PAUSE and FEED buttons at the same time for two seconds,	Ribbon	
	then turn on the printer's power. When the online Blue and the error Red are on at	Error	
	the same time, release PAUSE and FEED buttons, when you hear a beep, the	Comm	
	printer enters the dump mode and will print out "NOW IN DUMP MODE"		
Skip	A. Power off the printer		4))
AUTO.BAS	B. Press and hold PAUSE and FEED buttons for four seconds at the same time, and	Online	
	turn on the printer power until the power Blue is off, and the error Red is on, release	Ribbon	
	PAUSE and FEED buttons, two beeps are heard. At this time, the printer will skip the	Error	
	AUTO.BAS program, and then the power light is on	Comm	
Printer	A. Power off the printer		4))
initialization	B. Press and hold PAUSE and FEED buttons at the same time for six seconds, and	Online	
	turn on the printer power until the printer online Blue is on and error Red is off,	Ribbon	
	release PAUSE and FEED buttons, five beeps are heard. At this time the printer will	Error	
	restore the printer parameters to the factory default settings	Comm	
Ribbon	The machine will automatically detect the status of the ribbon after turning on and in		
inspection	each thermal transfer printing mode.		

Follow these steps to enable the boot function:

6. Printer Utility

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.

6.1 Start the Printer Utility

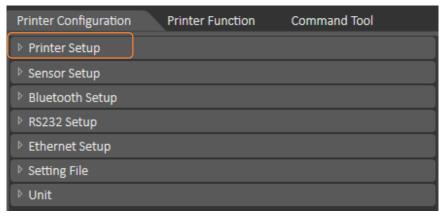
- 1. Please mouse over Printer Utility icon Printer Utility.exe image Double click left mouse button.
- 2. After opening the main screen, you can see the following function items:
- (1) Port Settings (5) Command Tool
- (2) Printer Information (6) Language
- (3) Printer Configuration (7) About
- (4) Printer Function (8) Exit



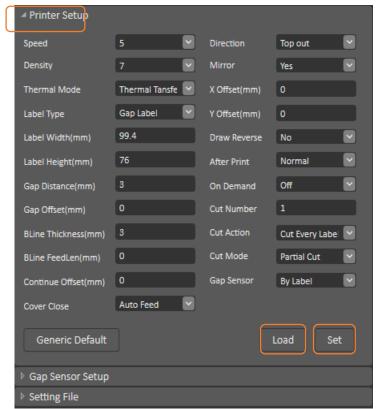
NOTE: If you need more detailed information, please refer to Gainscha official website http://www.gainscha.com.tw/

6.2 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).



7. LCD Menu Function for GI-2410T PLUS, GI-3407T PLUS Series (Empower)

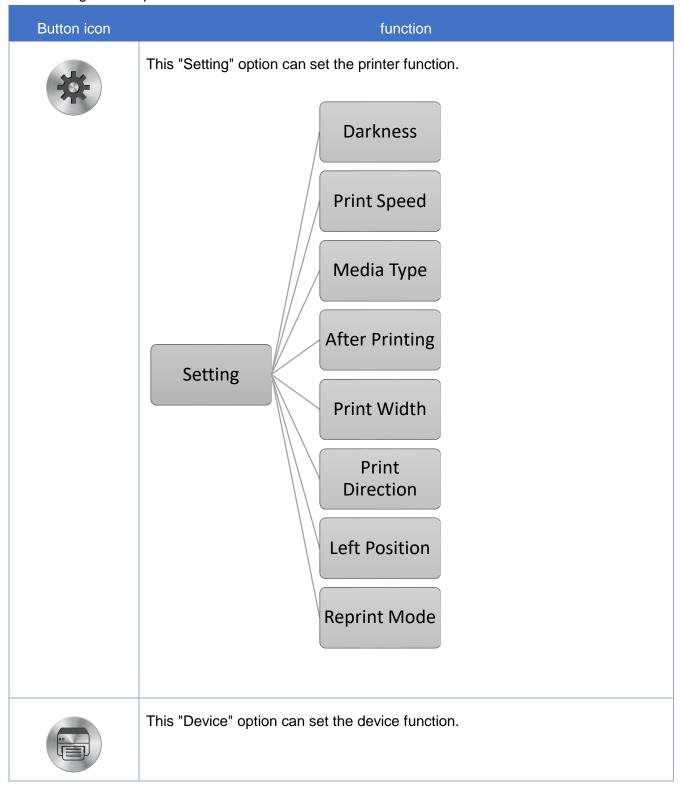
7.1 Enter the Menu

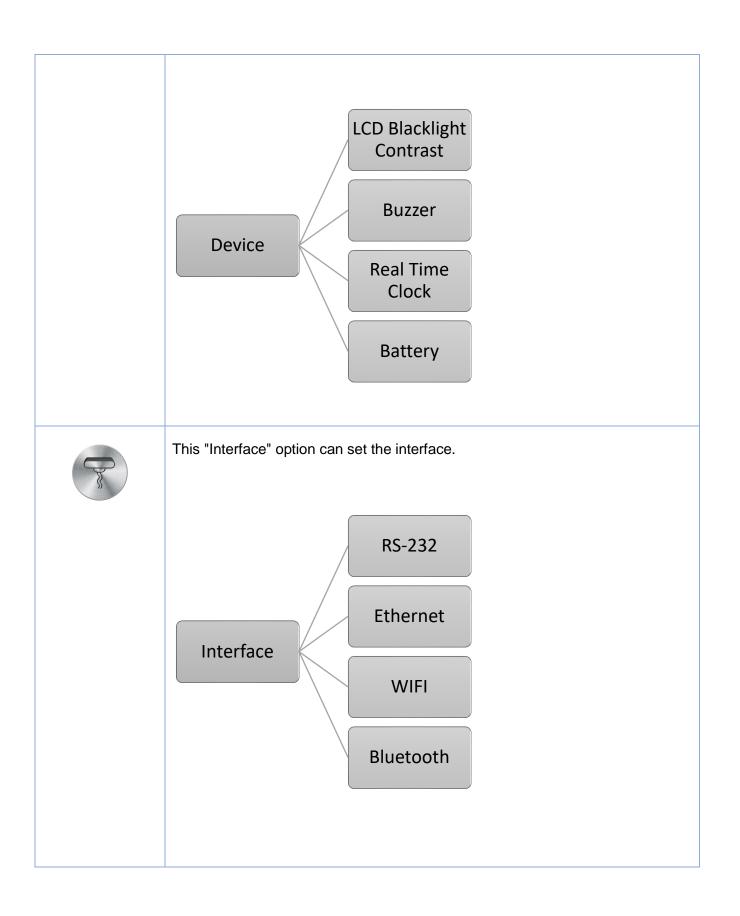


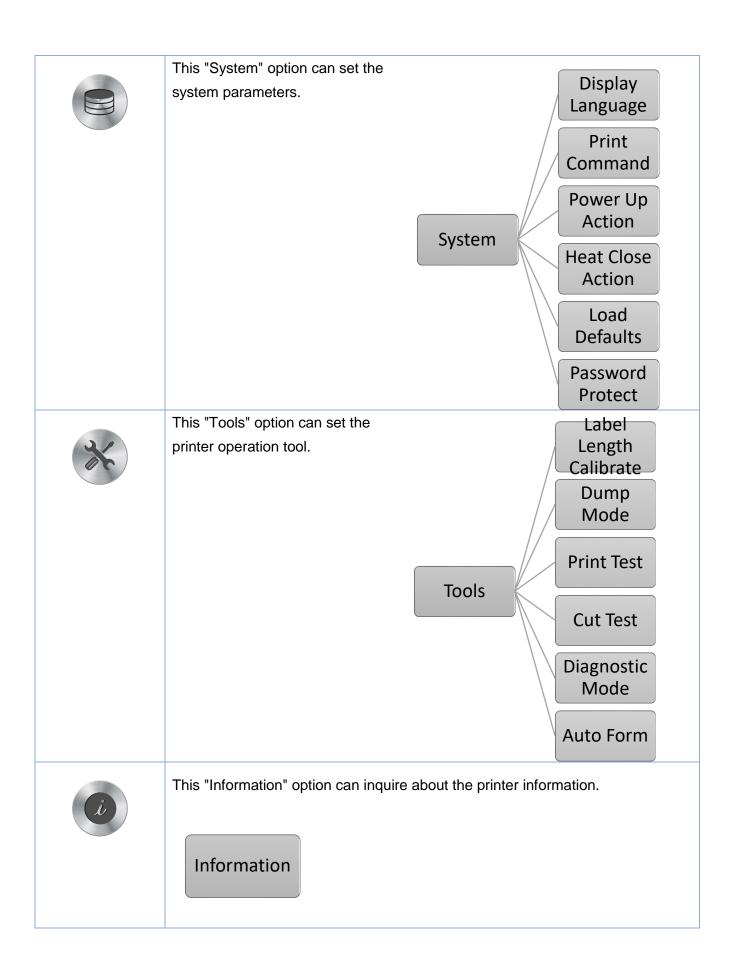


7.2 Menu Overview

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.

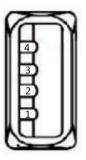






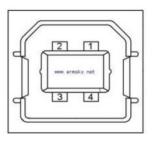
8. Communication interfaces

1) USB(A Type)



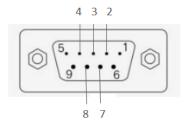
Pin No.	Pin Name
1	VBUS
2	D-
3	D+
4	GND

2) USB(B Type)



Pin No.	Pin Name
1	VBUS
2	D-
3	D+
4	GND

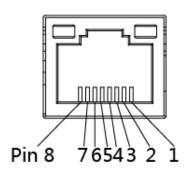
3) Serial Port



DB9 母头定义

Pin No.	Pin Name	Description
1	-	-
2	TXD	Transmit Data
3	RXD	Receive Data
4	Connect to Pin6	Equipment to Judge
5	GND	System Ground
6	Connect to Pin4	Equipment to Judge
7	CTS	Clear to Send
8	RTS	Request to Send
9	+5VDC	Output

4) Ethernet Port



Pin No.	Pin Name
1	TX+
2	TX-
3	RX+
4	-
5	-
6	RX-
7	-
8	-

9. Troubleshooting

9.1 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.	The power cord is not properly connected.	Plug the power cord in printer and outlet.Switch the printer on.
Out of ribbon	Out of ribbon.The ribbon installation path is incorrect.	Install new ribbon.Follow the steps for installing the ribbon to reinstall.
Out of paper	 Out of paper. The paper installation path is incorrect. Gap / black mark sensor detection is incorrect. 	 Install new paper. Follow the steps for installing the paper to reinstall. Recalibrate the label sensor. Check whether the label paper is abnormal.
Paper jam	 Gap / black mark sensor detection is incorrect. The label size is set incorrectly. Label may be blocked inside the printer. 	 Recalibrate the label sensor. Set the correct label size. Cleaning the inside of the printer.
Unable to print	Cable is not well connected to serial or USB interface or parallel port.	 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	Ribbon and media is loaded	Reload the supply.
	incorrectly.	Clean the print head.
	Dust or adhesive accumulation on	Clean the platen roller.
	the print head.	Adjust the print density and print
	Print density is not set properly.	speed.
	Printhead element is damaged.	Run printer self-test and check the
	● Ribbon and media are	print head test pattern if there is dot
	incompatible.	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	Label size is not specified properly.	Check if label size is setup
printing	Sensor sensitivity is not set	correctly.
	properly.	Calibrate the sensor by Auto Gap
	The media sensor is covered with	or Manual Gap options.
	dust.	Clear the GAP/Black mark sensor
		by blower.
The printing position of	Media sensor sensitivity is not set	• Calibrate the sensor sensitivity
small label is incorrect	properly.	again.
	Label size is incorrect.	Set the correct label size and gap
	The vertical offset setting in the	size.
	driver is incorrect.	• If using the software BarTender,
		please set the vertical offset in the
		driver.
Missing printing on the	 Wrong label size setup. 	 Set the correct label size.
left or right side of label		
Wrinkle problem	Ribbon installation is incorrect.	Please set the suitable density to
	Media installation is incorrect.	have good print quality.
	Print density is incorrect.	Make sure the label guide touch
	Media feeding is incorrect.	the edge of the media guide.
Gray line on the blank	The print head is dirty.	Clean the print head.
label	The platen roller is dirty.	Clean the platen roller
Irregular printing	The printer is in Hex Dump mode.	• Turn off and on the printer to skip
		the dump mode.
Problem	Possible Cause	 Recovery Procedure

10. 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	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.	
	Print Head	
	Print Head Element Head Cleaner Pen	
Platen Roller	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.

11. Revise History

Date	Version	Content	
2022/7/21	Ver.1.0.1	Modify GI-2408T PLUS/GI-3406T PLUS rename GI-2410T PLUS/	
		GI-3407T PLUS	
2023/6/26	Ver.1.0.1	Modify 2.23 Label gap/black mark add note	
		Modify 9.1 Out of paper add solution	