

GS-2208D/GS-3205D Series

DIRECT THERMAL THERMAL LABEL PRINTER

USER'S MANUAL



Ver.1.0.8

Agency Compliance and Approvals

(F

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

FC

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

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Contents

1. Introduction	5
1.1 Product Introduction	5
1.2 Product Features	7
1.2.1 Printer Standard Features	7
2. Operations Overview	9
2.1 Unpacking and Inspection	9
2.2 Printer Overview	
2.2.1 Front View	
2.2.2 Interior View	
2.2.3 Front View	
2.2.4 Rear View	
3. Setup	
3.1 Setting up the Printer	
3.2 Install Printer Driver	

3.3 Loading the Media	
3.3.1 Loading the Roll Labels	
3.3.2 print media loading diagram	
4. LED and Button Functions	
4.1 LED Indicator	
4.2 Regular Button Functions	
4.3 Power-on Utilities	
5. PrinterUtility	
5.1 Start the PrinterUtility	
5.2 Printer Function	21
6. Communication Interfaces	
7. Troubleshooting	
7.1 Common Problems	
8. Maintenance	
9. Revise History	

1. Introduction

1.1 Product Introduction

Thank you for purchasing Gainscha bar code printer. Although the printer has a small footprint, it delivers reliable, superior performance.

This printer provides direct thermal printing at user selectable speed of: 2.0 \ 3.0 \ 4.0 \ 5.0 \ 6.0 \ 7.0 or 8.0 ips for 203 dpi; 2.0 \ 3.0 \ 4.0 or 5.0 ips for 300 dpi. It accepts roll feed, die-cut, and fan-fold media with gap or black mark. All common bar codes formats are available. Fonts and bar codes can be printed in 4 directions, 8 different alphanumeric bitmap fonts and built-in scalable font capability. You will enjoy trouble free, high throughput for printing labels with this printer.

- Applications
 - o Manufacturing & Warehousing
 - Work in Progress
 - Item Labels
 - Instruction labels
 - Agency labels

o Healthcare

- Patient Identification
- Pharmacy
- Specimen Identification

- o Parcel Post
 - Shipping/ Receiving Labels

o Small Office/ Home Office

o Retail Marking

- Price tags
- Shelf labels
- Jewelry tags

1.2 Product Features

1.2.1 Printer Standard Features

PRINTER MODEL	GS-2208D	GS-3205D	GS-2208D	GS-3205D	
Level	Economic	Economic	Empower	Empower	
Resolution	8dots/mm	12dots/mm	8dots/mm	12dots/mm	
	(203DPI)	(300DPI)	(203DPI)	(300DPI)	
Printing Method		Direct ⁻	Thermal		
Max. print speed	203.2mm(8")/	127mm(5")/	203.2mm(8")/	127mm(5")/	
	second	second	second	second	
Max. print width	54 mm (2.13")	54 mm (2.13")	54 mm (2.13")	54 mm (2.13")	
Max. print length	15,000mm (600")	6800mm (270")	15,000mm (600")	6800mm (270″)	
CPU specifications		400 MHZ, 3	2 bits, ARM9		
Memory RAM	64 MB SDRAM 64 MB SDRAM			SDRAM	
Memory ROM	32 MB Flas	h Memory	128 MB Flash Memory		
Interface	 USB 2.0 High Speed 480Mbps USB Host 2.0, for scanner or PC keyboard Internal Ethernet 10/100Mbps 		 USB 2.0 High Speed 480Mbps USB Host 2.0, for scanner or PC keyboard Internal Ethernet 10/100Mbps 		
Real Time Clock	N/A		Standard (CR2032	2 Battery Install)	
Buzzer	N/A		Standard		
Sensors	Head open sensor, Reflective sensor (moveable), Transmissive sensor (Fixed), Front-Reflective sensor				
Power	External universal switching power supply Input: AC 100-240V, 2.5A, 50-60Hz, Output: DC 24V, 2.5A, 60W				
User Interface	1 power switch, 2 buttons (Feed & Pause), 2 LEDs (Online, Error status)				
Internal fonts	 8 alpha-numeric True type font en 	bitmap fonts igine (need download s	calable font file)		

1D Baroced	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, Azt	ec Code, Data Matrix
Rotation		Font and barcode suppo	ort 0, 90, 180, 270 degree	2
Printer language		Compatible to TSPL, ZP	PL, ZPL II, EPL, EPL 2, DPL	
Media type	Continuo	us, die-cut, black mark, t	fan-fold, notched (outsic	le wound)
Media width		18 ~ 65mm	(0.7" ~ 2.55")	
Media thickness		0.06 ~ 0.19mm	(2.36 ~ 7.48mil)	
Media core diameter	25.4 mm (1")			
Label roll capacity		111.7 mm	ו (4.4") OD	
Label length	5 ~ 2,794 mm	5 ~ 1,016 mm	5 ~ 25,400 mm	5 ~ 11,430 mm
	(0.2" ~ 110")	(0.2" ~ 40")	(0.2" ~ 1000")	(0.2" ~ 450")
Physical dimension		129mm(W)x165.3n	nm(H)x244.3mm(D)	
Enclosure	ABS plastic			
Safety certification	FCC Class A, CE Class A, CCC, BIS, CB			
Environment	Operation: 5 ~ 40°C, 25 ~ 85% non-condensing			
condition	Storage: -40 ~ 60°C, 10 ~ 90% non-condensing			
Environmental		Comply with Rol	HS, REACH, WEEE	
concern				

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.

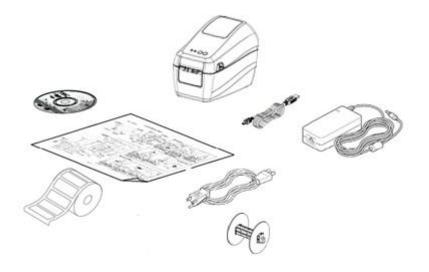
Unpacking the printer, the following items are included in the carton.

- One printer unit
- One quick installation guide
- One power cord
- One external universal switching power

- One USB interface cable
- One core coated art paper roll
- One Windows labeling software/Windows driver CD disk
- One label roll holder

supply

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



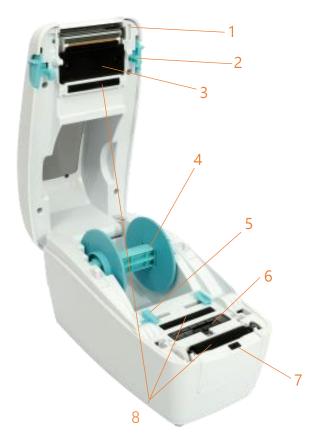
2.2 Printer Overview

2.2.1 Front View



- 1. ONLINE indicator
- 2. ERROR indicator
- 3. PAUSE button
- 4. FEED button
- WINDOWS (The windows can look through)

2.2.2 Interior View



- 1. Printer top cover
- 2. Top cover open tab
- 3. Gap transmitter
- 4. Media holder
- 5. Media guide
- 6. Black mark paper sensor
 Gap receiver
- 7. Front-end label return sensor
- 8. Platen roller

2.2.3 Front View



- 1. Paper tearing edge
- 2. Front bezel

2.2.4 Rear View



- 1. Power jack socket
- 2. USB interface
- 3. USB host (For HID keyboard or scanner)
- 4. RJ-45 Ethernet Street 10 / 100M bps
- 5. Power switch

3. Setup

3.1 Setting up the Printer

- 1. Place the printer on a flat, secure surface.
- 2. Make sure the power switch is set to "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 switch prior to plug in the power cord to printer power jack.



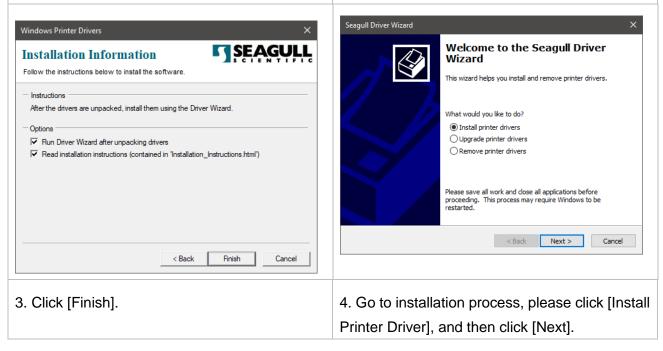
3.2 Install Printer Driver

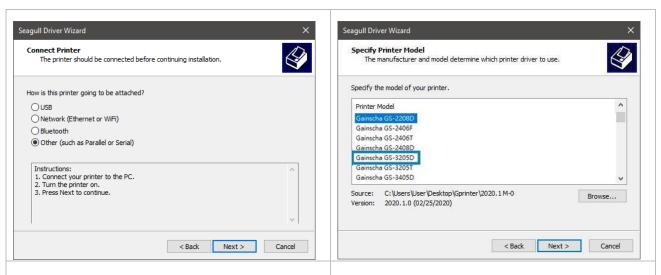


Windows Printer Drivers X	Windows Printer Drivers ×
License Agreement Please read the following license agreement carefully.	Installation Directory Please select the directory to unpack the software.
WINDOWS PRINTER DRIVER	The software will be unpacked to the directory listed below. To unpack to a different directory, either type in the new path or click Browse to select a different directory.
Seagull Scientific, Inc. ("Seagull") grants you a non-exclusive license to use the accompanying Windows Printer Driver(s) and related documentation ("Seagull Software"), subject to the following provisions. You assume full responsibility for the selection of the Seagull Software to achieve your intended results, and for the installation, use, and results obtained from the Seagull Software. Both the software and the related material are Copyrighted and are protected by law. Title to and all rights and interests in the Seagull Software, wherever resident and on whatever media, are and shall remain the pronecty of Seanull. Furthermore, bu using	Installation Directory: C:\Users\User\Desktop\Gprinter\2020.1 M-0 Browse Space required on drive: 56.3 MB Space available on selected drive: 815.6 GB
I accept the terms in the license agreement I do not accept the terms in the license agreement 	< Back Next > Cancel

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

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





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

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

Seagull Driver Wizard	×	Seagull Driver Wizard	I.	
Specify Port A port is used to connect a printer to th	e computer.	Specify Printer Na Names are used	ame d to identify the printer on this computer an	d on the network.
Specify the port that you are using. If you a not listed below, create a new port.	are connecting using TCP/IP or another port type	Enter a name for this Printer name:	s printer. Jainscha GS-2208D	
Port FILE:	Type A		as the default printer	
USB001 Microsoft.Office.OneNote_16001.12624 nul:	Local Port		not you want to share this printer with othe rovide a share name.	r network users. When
PORTPROMPT: SHRFAX:	Local Port Fax Monitor Port V	Do not share this Share name:	s printer sainscha_GS-2208D	
	Create Port Configure Port			
	< Back Next > Cancel		< Back	Next > C

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].

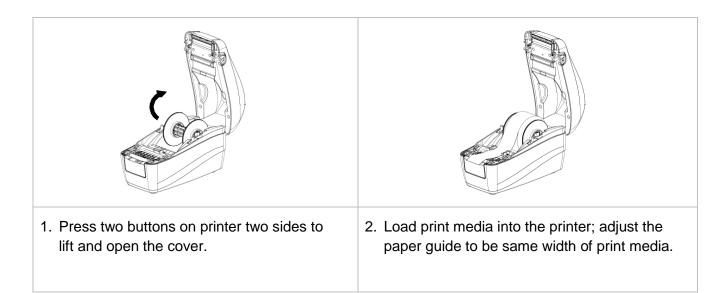
Cancel

Seagull Driver Wizard		×	Seagull Driver Wizard	>
	Completin Vizard	g the Seagull Driver		Seagull Driver Wizard Completed Successfully
	new printer will b	e installed using the following settings:		The following operations were completed successfully:
	Name: Share name:	Gainscha GS-2208D <not shared=""></not>	<i>d d d d d d d d d d</i>	Installed printer 'Gainscha GS-2208D' ·
	Port:	USB001		
	Default:	No		
	Manufacturer:	Gprinter		
	Model:	Gainscha GS-2208D		
	Version:	2020.1.0 (02/25/2020)		
Nu	umber of installed	d printers to be upgraded: 0		
То	begin the drive	r installation process, dick Finish.		v
		< Back Finish Cancel		Install Another Printer Close

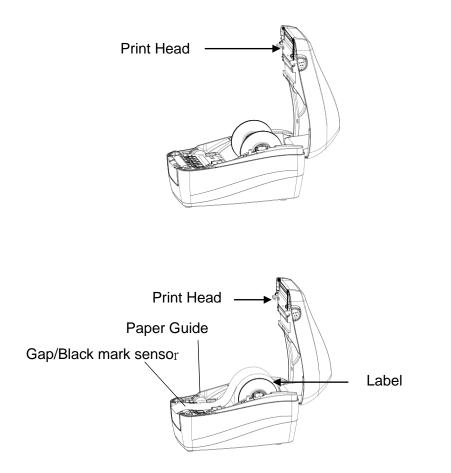
9. Click [Finish].	10. The installation is complete, please click [Close].
Image: Construction Image: Construction	Gainscha GS-2208D Properties × 宇型 工具 問於 General Sharing Ports Advanced Color Management Security Security Security Security Security Security Security Security Security Security Print to the following port(s). Documents will print to the first free checked port. Port Description Printer COM4: Serial Port COM5: Serial Port Configure Port. COM6: Serial Port Canon MG3600 series Printer WS WSD-1 WSD Port Canon MG3600 series Printer WS WSD-4 WSD Port Canon MG3600 series Printer WS V Security MSD-4 WSD Port Canon MG3600 series Printer WS V MSD-4 WSD Port Canon MG3600 series Printer WS V MSD-4 Delete Port Configure Port V Add Port Delete Port Configure Port Enable bidirectional support Enable printer pooling OK Cancel Apply Help
11. Users can check whether the installation is completed through the following ways:	12. Users can change printer interface through the following ways:
 a. If Windows 10, check from [Windows Settings] → [Devices] → [Printers and Scanners]. b. Check from [Control Panel] → [Devices and Printers]. 	 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 Media

3.3.1 Loading the Roll Labels



3.3.2 print media loading diagram



4. LED and Button Functions

4.1 LED Indicator

Event	Description	Status	Status	Веер
		lights 1	lights 2	
Direct thermal	Blue(ONLINE) solid, the device is ready to use.	00		
mode ready				
Open cover	When the cover is open, a beep sound will be made,	00	00	I
	and Blue(ONLINE), and Red (ERROR) will flash.			
FEED	Press the FEED button to print as per demand,	00	00	
	Blue(ONLINE) will flash.			
Out of paper	When out of paper, a beep sound will be made, and	00	00	(
	Red(ERROR) flash.			
Page setup error	When the page setup error, a beep sound will be	00		(
	made, and Red(ERROR) solid Blue(ONLINE) flash.			
Print head When print head overheated, a beep sound will be		00		(
overheated	made, and Blue(ONLINE)and Red(ERROR) alternately			
	flash.			
Other errors	When other errors, a beep sound will be made, and	00	00	(
	Red(ERROR) flash.			



4.2 Regular Button Functions

This printer has two buttons for feed, pause or cancel errors. There are different functions

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.

in different modes, as shown in the following form:

4.3 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	Веер
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		()
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		
function	hear a beep, release the PAUSE button, and the printer's storage device		
	will appear on the computer.		
Enter dump	A. Power off the printer	00	()
mode	B. Make sure the printer is loaded with paper and close the printer cover		
	C. Press and hold the PAUSE and FEED buttons at the same time for		
	two seconds, then turn on the printer's power. When the online Blue and		
	the error Red are on at the same time, release PAUSE and FEED		
	buttons, when you hear a beep, the printer enters the dump mode and		
	will print out "NOW IN DUMP MODE"		
Skip	A. Power off the printer	00	()
AUTO.BAS	B. Press and hold PAUSE and FEED buttons for four seconds at the		
	same time, and turn on the printer power until the power Blue is off, and		
	the error Red is on, release PAUSE and FEED buttons, two beeps are		
	heard. At this time, the printer will skip the AUTO.BAS program, and then		
	the power light is on		
Printer	A. Power off the printer	00	()
initialization	B.Press and hold PAUSE and FEED buttons at the same time for six		
	seconds, and turn on the printer power until the printer online Blue is on		
	and error Red is off, release PAUSE and FEED buttons, five beeps are		
	heard. At this time the printer will restore the printer parameters to the		
	factory default settings		

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

🚔 Printer Utility v2.9		×
Gainscha	Printer Configuration Printer Fund	ction Command Tool
Galliscila	Printer Setup	
Printer Information	2 ed	Direction
Printer Module :	Jensity	Mirror
	Therr 3	X Offset(mm
Printer Serial Number:	Label 4	Y Offset(mm,
	Label Width(mm)	Draw Reverse
Kernel Version:	Label Height(mm)	After Print
Printer Status:	Gap Distance(mm)	On Demand
	Gap Offset(mm)	Cut Number
More Information	BLine Thickness(mm)	Cut Action
Update Printer Info.	BLine FeedLen(mm)	Cut Mode
	Continue Offset(mm)	Gap Sensor
Port Settings	Cover Close	
Select Port :	Generic Default	Load
		7
	▹ Gap Sensor Setup	
Unit Setting	Setting File	
Unit mm 🗸		τ.
Language : English(US)	— 6 Abou	t(A) 🥬 Exit(E) 🔀

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.

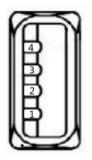
Printer Configuration	Printer Function	Command Tool
Printer Setup		
Sensor Setup		
Bluetooth Setup		
RS232 Setup		
Ethernet Setup		
Setting File		
[▶] Unit		

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).

A Printer Setup			
Speed	5	Direction	Top out
Density	7 💌	Mirror	Yes 💌
Thermal Mode	Thermal Tansfe 💟	X Offset(mm)	0
Label Type	Gap Label	Y Offset(mm)	0
Label Width(mm)	99.4	Draw Reverse	No
Label Height(mm)	76	After Print	Normal
Gap Distance(mm)	3	On Demand	Off 🔽
Gap Offset(mm)	0	Cut Number	1
BLine Thickness(mm)	3	Cut Action	Cut Every Label 💟
BLine FeedLen(mm)	0	Cut Mode	Partial Cut
Continue Offset(mm)	0	Gap Sensor	By Label 🗠
Cover Close	Auto Feed		
Generic Default			Load Set
Gap Sensor Setup			
Setting File			

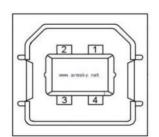
6. Troubleshooting

1) USB (A Type)



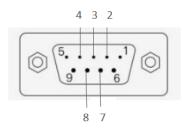
Pin No.	Pin Name
1	VBUS
2	D-
3	D+
4	GND

2) USB (B Type)



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

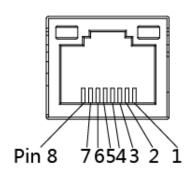
3) Serial Port



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	_	Reserve (No output)

4) Ethernet Port



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

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.	 The power cord is not properly connected. The printer power switch is not turned on. 	 Plug the power cord in printer and outlet. Switch the printer on.
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.
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. 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. Please confirm whether the connection cable of the stepping motor is connected correctly
Poor print quality	media is loaded incorrectly.	 Reload the supply.

	 Dust or adhesive accumulation on the print head. Print density is not set properly. Printhead element is damaged. 	 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 label media. The print head mechanism does not latch the print head properly.
Skip labels when printing	 Label size is not specified properly. Sensor sensitivity is not set properly. The media sensor is covered with dust. 	 Check if label size is setup correctly. Calibrate the sensor by Auto Gap or Manual Gap options. Clear the sensor by blower.
The printing position of small label is incorrect	 Media sensor sensitivity is not set properly. Label size is incorrect. The vertical offset setting in the driver is incorrect. 	 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	Wrong label size setup.	• Set the correct label size.
Wrinkle problem	 Media installation is incorrect. Print density is incorrect. Media feeding is incorrect. 	 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	The print head is dirty.The platen roller is dirty.	Clean the print head.Clean the platen roller
Irregular printing	• The printer is in Hex Dump mode.	• Turn off and on the printer to skip the dump mode.
No print on the label	Label loaded not correctly	 Follow the instructions in loading the media

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	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.	
	Print Head	
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.	
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	
2020/6/24	Ver.1.0.1	Add chapter 3.4.3 External Label Roll Mount Installation (Option)	
		note.	
2020/6/29	Ver.1.0.2	Modify chapter 4.1 LED Indicator.	
2020/6/30	Ver.1.0.3	Replace non-conforming drawings and text descriptions.	
		Modify item 3.2, install driver 5th item.	
		Delete chapter 3.3.3 External Label Roll Mount Installation	
		(Option).	
2020/8/10	Ver.1.0.4	Modify chapter 4.3 Power-on Utilities	
2021/8/26	Ver.1.0.5	Add warning slogan	
2022/2/16	Ver.1.0.6	Empower GS-2208DM Rename GS-2208D	
2022/3/16	ver.1.0.6	Empower GS-3205DM Rename GS-3205D	
2022/4/29	Ver.1.0.7	Modify chapter 6 add communication interfaces	
2024/9/10	Ver.1.0.7	Modify language add EPL 2	
2024/10/17 Ver.1.0.8		Modify Max. print length 200dpi max. print length : 15,000mm (600")	
2024/10/1/	v CI.1.0.0	300dpi max. print length: 6800mm (270″)	