



GCCLink

User Manual

Release Note

Version	Release date	Remark
01	Dec, 2025	First version

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Chapter 1

Software Setup

- Recommended Computer Configuration
- GCCLink Installation
- Sign Up an Account

1.1 Recommended Computer Configuration

The GCCLink supports laptops and desktop PCs with compatible operating systems. For optimal performance, we recommend using a Windows-based system that meets the following minimum requirements.

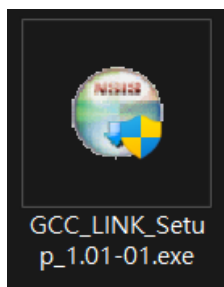
Computer Configuration

OS	Microsoft Windows 11
CPU	Intel Pentium, 1GHz or above
DRAM	4GB
HDD	500MB of free hard drive space
Resolution	1024 x 768 or above
Interface	PC or Laptop

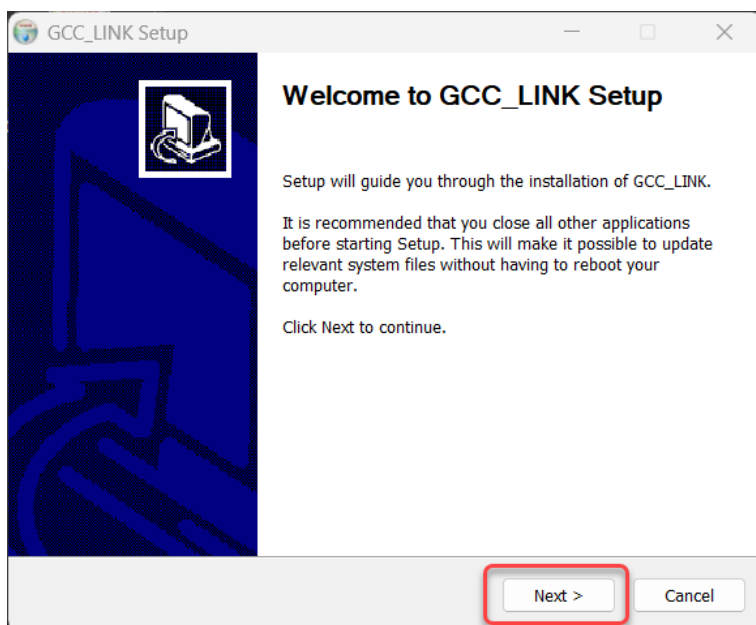
1.2 GCCLink Installation

Please follow the steps below to install GCCLink.

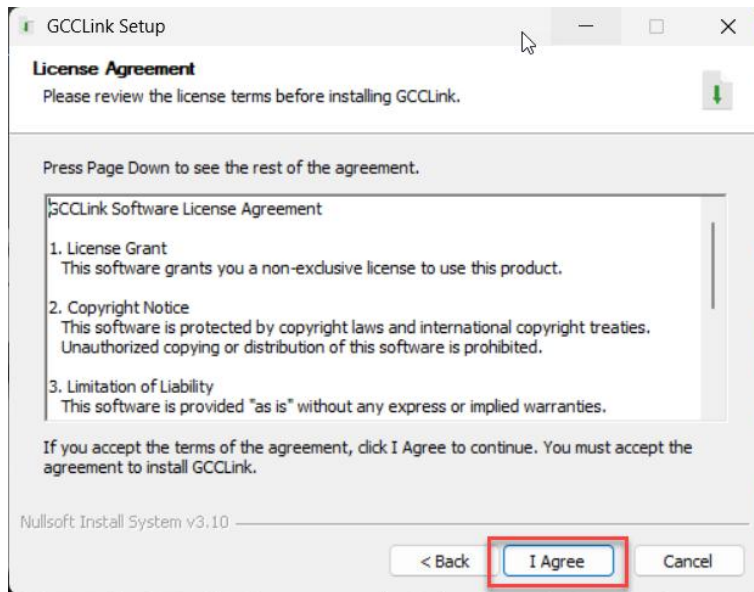
- 1) Download the installer from Support → Download Area on www.GCCworld.com, then double-click the file to begin the installation.



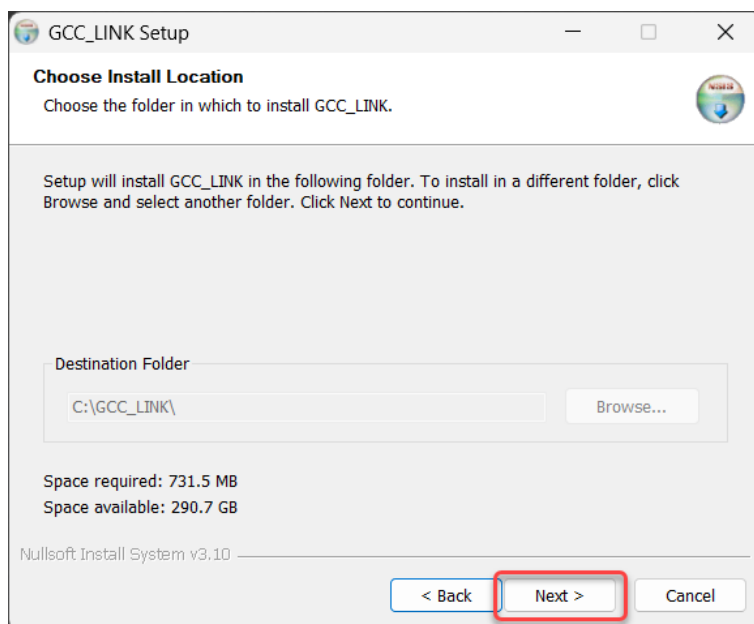
- 2) Click **Next** to continue.



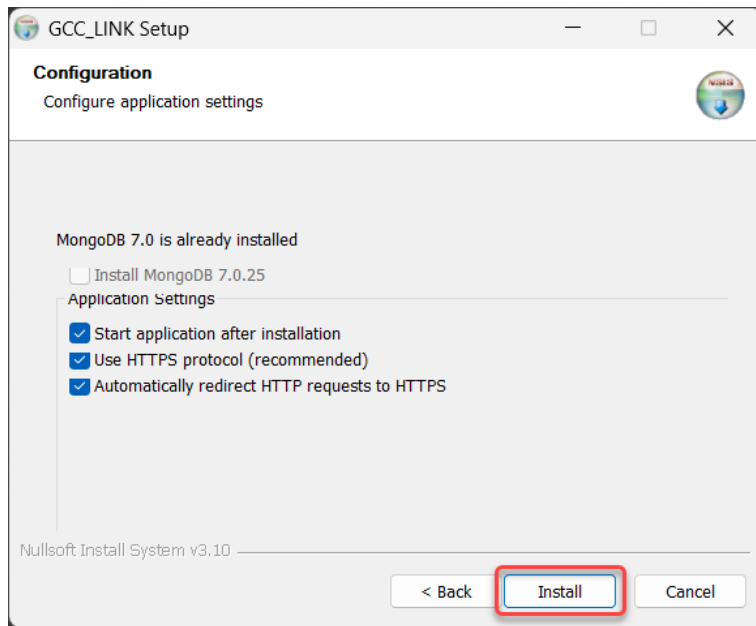
- 3) Read the License Agreement, then click **Next** to continue.



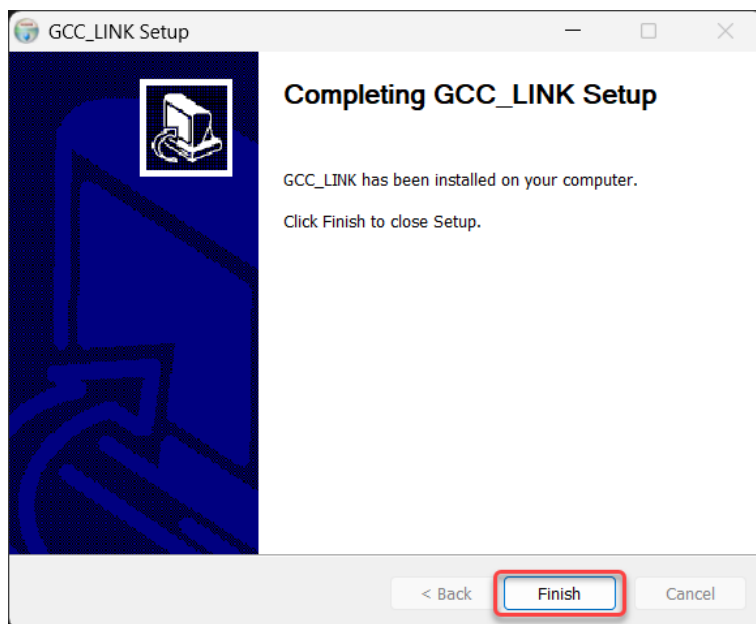
- 4) Next window will remind you that the GCCLink will be installed in the path of C:\GCCLink, click **Next** to continue.



- 5) Click **Install** to begin the installation.



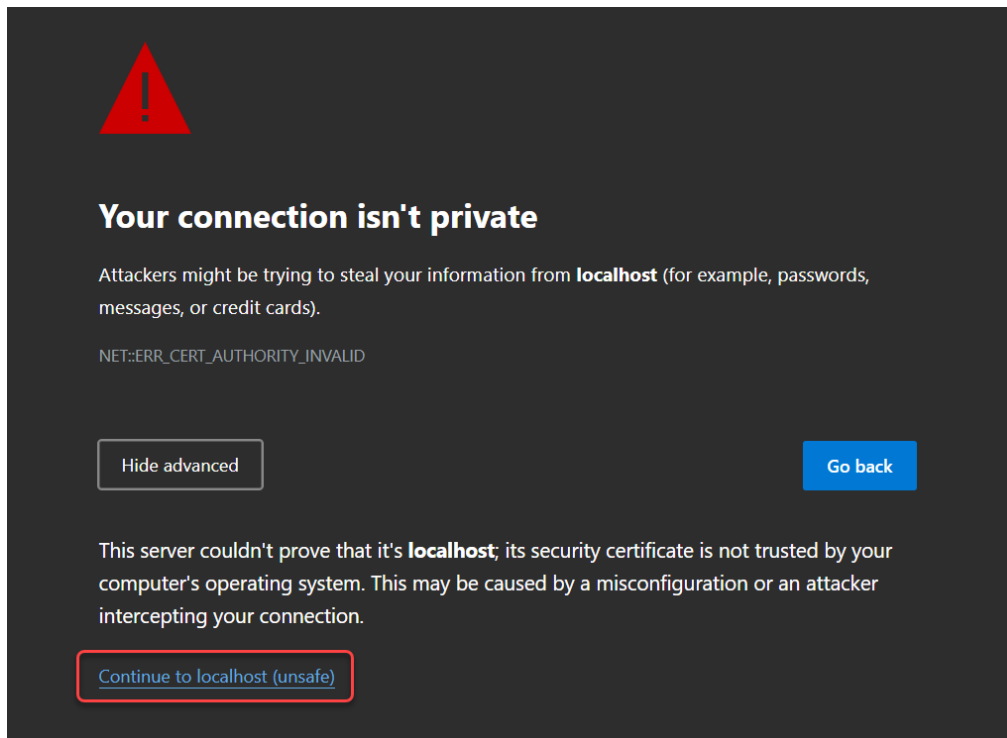
- 6) When the installation is completed, click **Finish** to close the window.



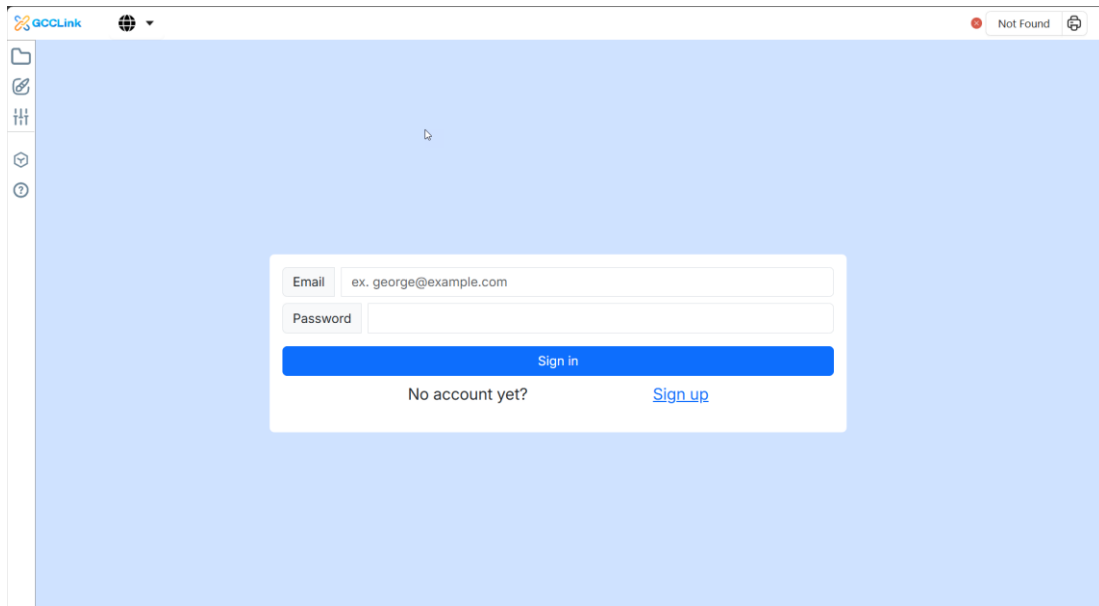
- 7) You can now double-click the GCCLink icon on your desktop to open the software.



- 8) When you run the software for the first time, your browser will open and display a message stating “Your connection isn't private.” Click **Advanced**, then select **Continue to localhost (unsafe)** to proceed.



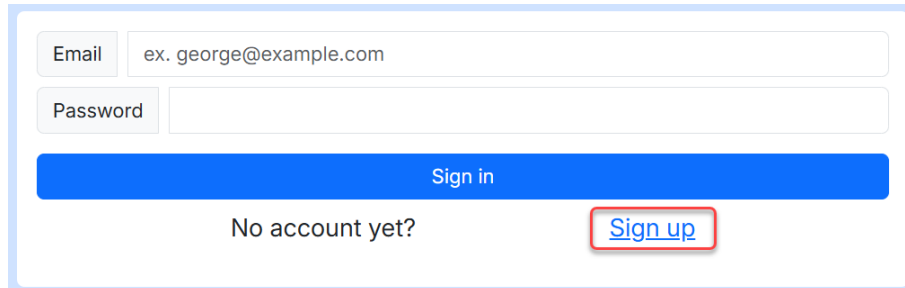
- 9) The GCCLink will open in the browser automatically.



1.3 Sign Up for an Account

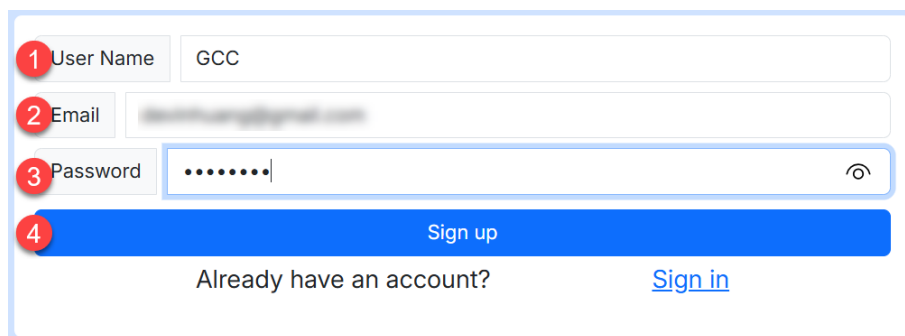
Before using the software, you need to create an account. All of your data will be stored on your computer and can only be accessed under your account to ensure the protection of your files and jobs. Please follow the steps below to create an account.

- 1) Click Sing up to create a new account



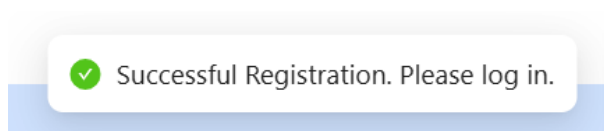
A sign-in form with two input fields: 'Email' containing 'ex. george@example.com' and 'Password' which is empty. Below the fields is a blue 'Sign in' button. Underneath the button, the text 'No account yet?' is displayed next to a blue 'Sign up' link, which is highlighted with a red rectangular box.

- 2) Enter your name, email address, and password, then click the **Sign Up** button to continue.

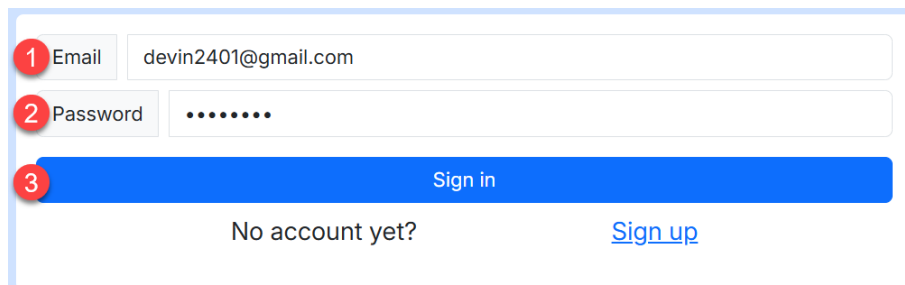


A sign-up form with four numbered steps indicated by red circles: 1. 'User Name' field with 'GCC'; 2. 'Email' field with a blurred address; 3. 'Password' field with masked characters and a toggle icon; 4. A blue 'Sign up' button. Below the button, the text 'Already have an account?' is followed by a blue 'Sign in' link.

- 3) The system will display the message "Successful Registration. Please log in."

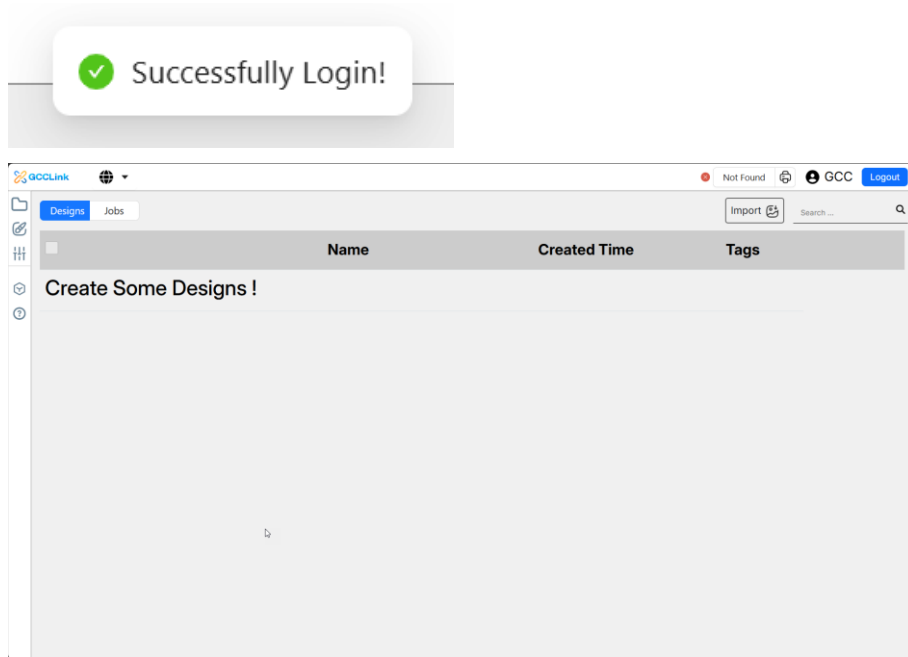


- 4) Enter your email and password, then click **Sign in** to continue.



A sign-in form with three numbered steps indicated by red circles: 1. 'Email' field with 'devin2401@gmail.com'; 2. 'Password' field with masked characters; 3. A blue 'Sign in' button. Below the button, the text 'No account yet?' is followed by a blue 'Sign up' link.

- 5) The system will display the message “Successful Login!” and the interface of GCCLink will open automatically.



NOTE

Each account has its own database for storing all imported designs and saved jobs. Please check your account if you find that the database does not match your files.

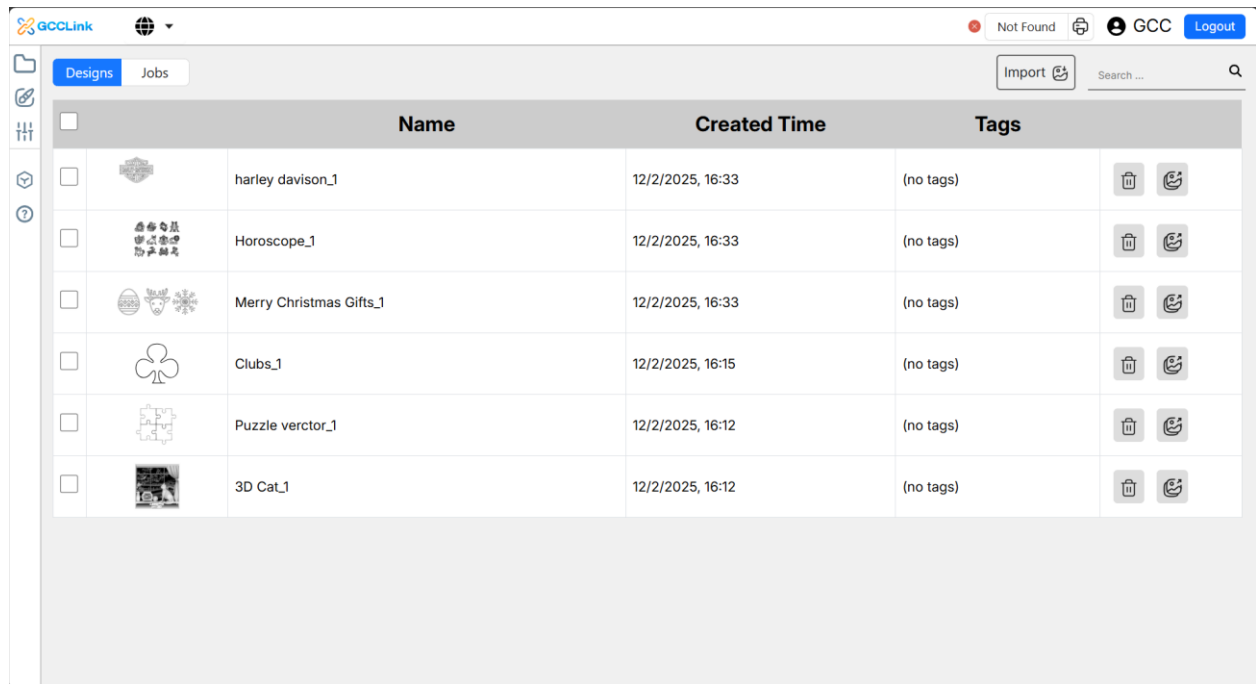
Chapter 2

Software Function Overview

- Universal Functions
- Sidebar Menu – File Page
- Sidebar Menu – Draw Page
- Sidebar Menu – Output Page
- Sidebar Menu – Materials Page
- Sidebar Menu – About Page

2.1 Universal Functions

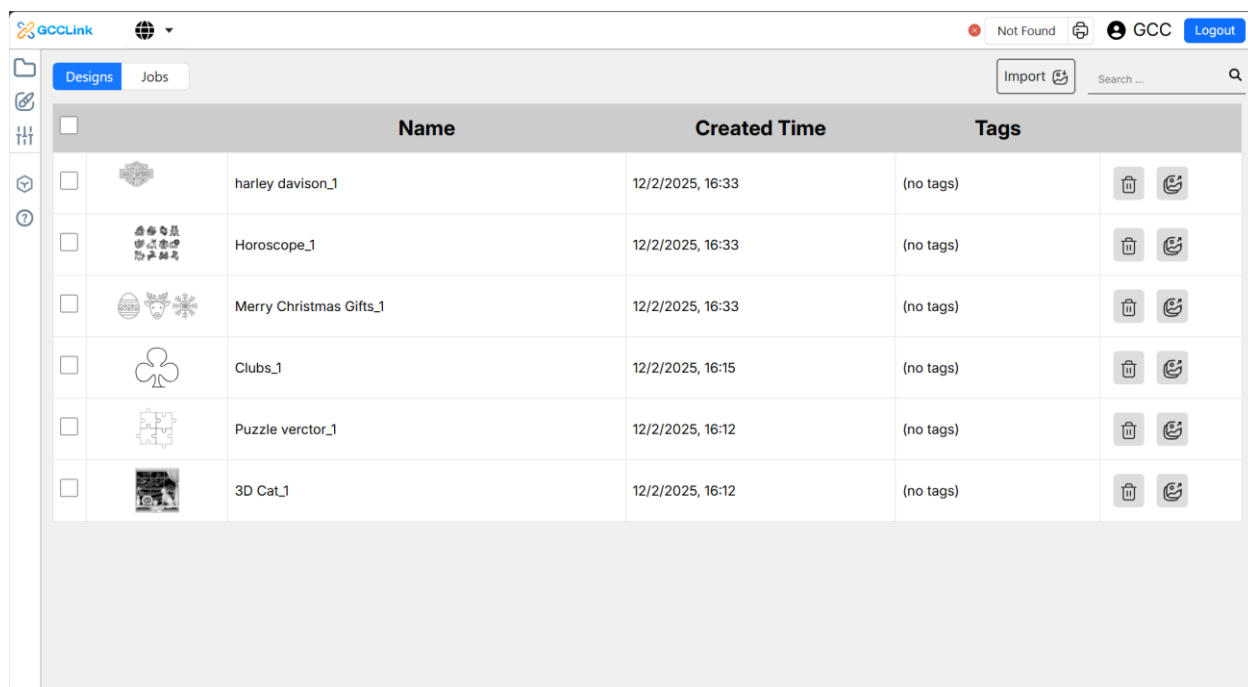
The software provides several universal functions that are located at the top of GCCLink and remain available on every page, including File, Draw, Output, Materials, and About.

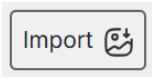
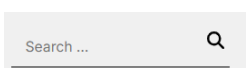
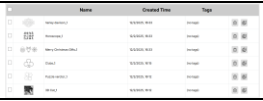


Function		Description
	Language	Switch the GCCLink interface language. You can choose from English, Traditional Chinese, and Japanese.
	Search Machine	It allows the user to search for and assign a machine for file output.
	Account Name	Displays the currently logged-in account name. Clicking it will show the account details.
	Logout	Logs out of the current account.
	Page Switcher	It allows the user to switch to different pages (File, Draw, Output, Materials, and About) from the sidebar menu.

2.2 Sidebar Menu – File Page

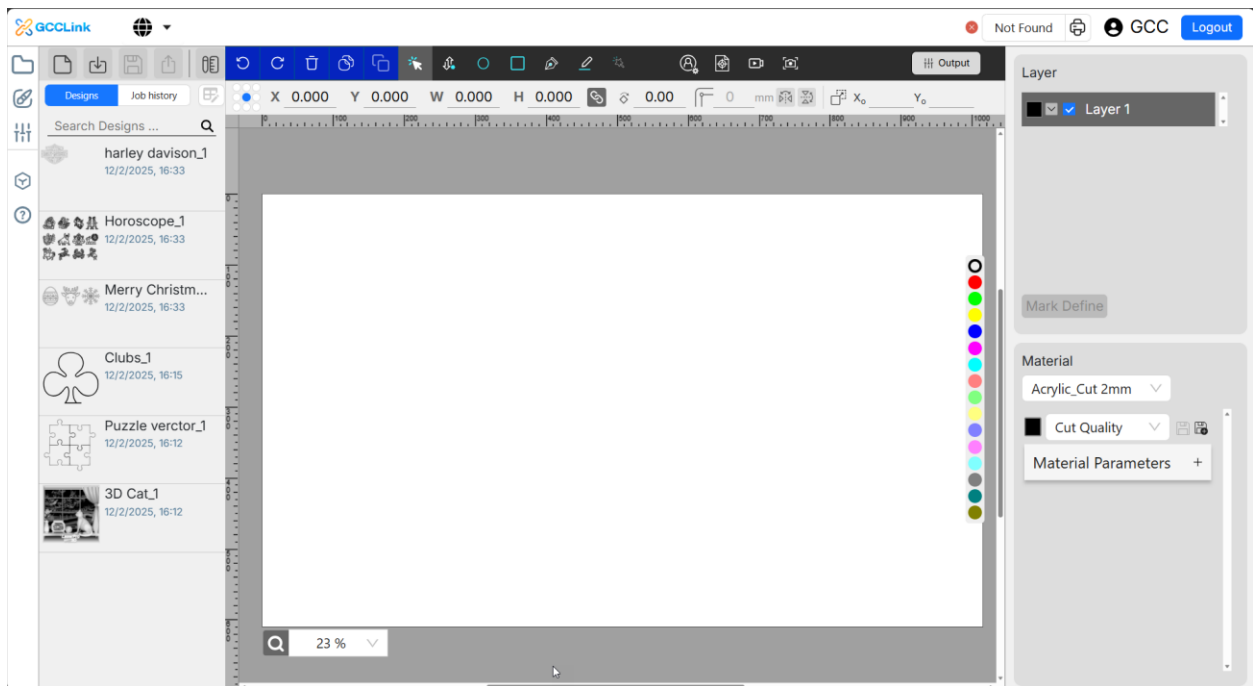
This page allows the user to manage imported design or saved jobs.



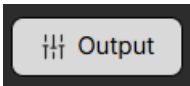
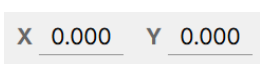
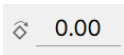
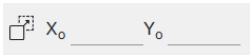
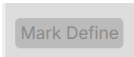
Function		Description
	Designs/Jobs	Switches between the Designs tab and the Jobs tab. All designs or jobs are displayed in the lower area.
	Import (Designs tab only)	Imports a design into GCCLink. Supported formats are PDF, SVG, and AI.
	Search Bar	Searches for a design or job by name or tag.
	Designs/Jobs List	Displays all your designs or jobs in a list.
	Delete Design/Job	Deletes the selected design or job.
	Export SVG (Designs tab only)	Exports the design as an SVG format to the computer.
	To Output Page (Jobs tab only)	Sends the job directly to the Output page.

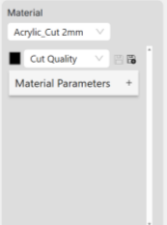
2.3 Sidebar Menu – Draw Page

This page allows the user to create or edit artwork.



Function		Description
	File Tools	Allows the user to create a New Design, Import Design, Save in Server, and Export as Image.
	Editor Preference	Sets the unit (metric or inches) and machine model to quickly adjust the canvas layout.
	Designs/Jobs Page Switcher	Switches between the Designs tab and the Jobs tab. All designs or jobs are displayed in the lower area.
	Search Bar	Searches for a design or job by name or tag.
	Edit Tools	Allows the user to Undo, Redo, Delete, Clone, Group, and Ungroup.
	Select Tool	Selects objects.
	Anchor Tool	Allows you to add nodes, reverse the object direction, and define the start point. For more information, see Section 2.3.1, “Anchor Tool”.
	Draw Tools	Allows the user to draw an Ellipse, Rectangle, Path, or a Line.
	Select-Same Tool	Selects all objects of the same type with one click. Please refer to chapter 2.3.2 – Select-Same Tool for more details.
	Zoom Tool	Sets a display scale of the canvas

	SmartEYES Configurations	Sets up SmartEYES. Please refer to Chapter 2.3.3 – SmartEYES Configurations for more details.
	Output	Sends the job to the Output page. Please refer to chapter 2.4 – Output Tab for more details.
	Object-origin	Set the reference point to use when positioning or scaling the object.
	Object Position	Position the object on the page by setting the x and y coordinates.
	Object Size	Set the width and height of the object.
	Lock Ratio	Preserves the original ratio of which to height when scaling and sizing the object.
	Rotate	Specify the angle by which to rotate the object.
	Rounded-corner	Set the radius for corners of the rectangle.
	Mirror Horizontally & Mirror Vertically	Flip the object from left to right or top to bottom.
	Click to import origin value	Set the X and Y coordinates to define where all imported files will be placed. You can also move the object using the Select tool, then click the  button to quickly get the coordinates.
	Color Palette	Applies colors to objects.
	Layer	Manages objects across different layers.
	Mark Define	Allows the user to define a specific object to registration marks. Please refer to Chapter 2.3.4 for more details.

	Material	Sets parameters for a specific material or select parameters from the materials list. Please refer to Chapter 2.5 – Materials page for more details.
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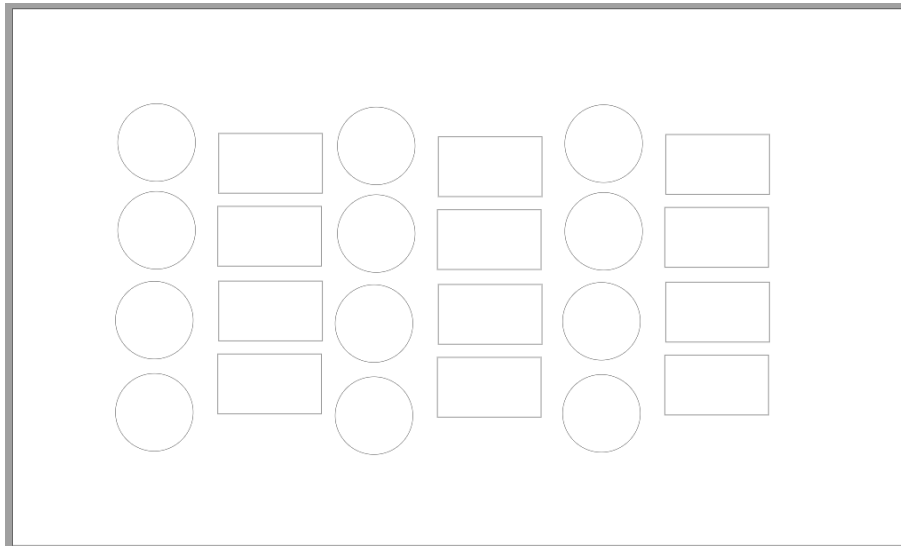
2.3.1 Anchor Tool

Use this tool to add nodes, reverse the object direction, and define the start point.

2.3.2 Select-Same Tool

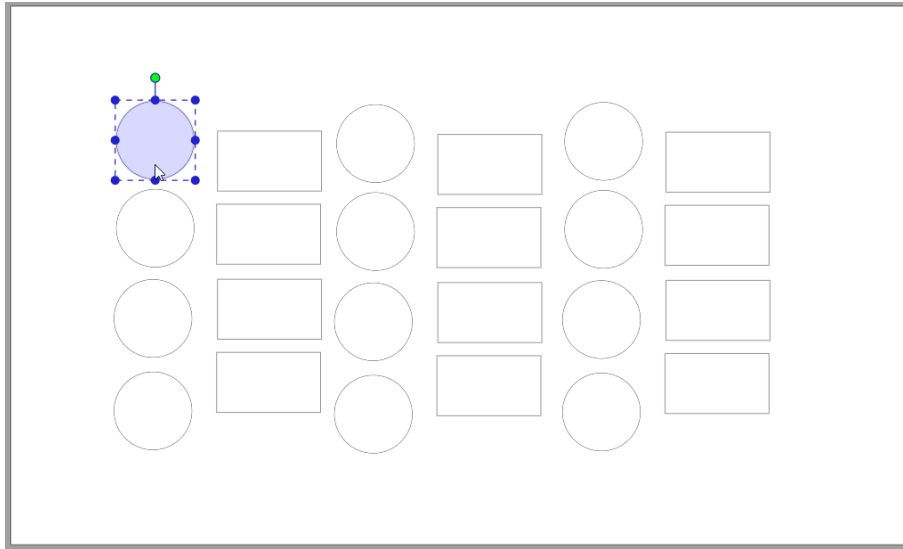
This feature allows the user to select all objects of the same type with one click.

For example, the artwork below contains many ellipse objects of the same size, and the user wants to resize all of them.

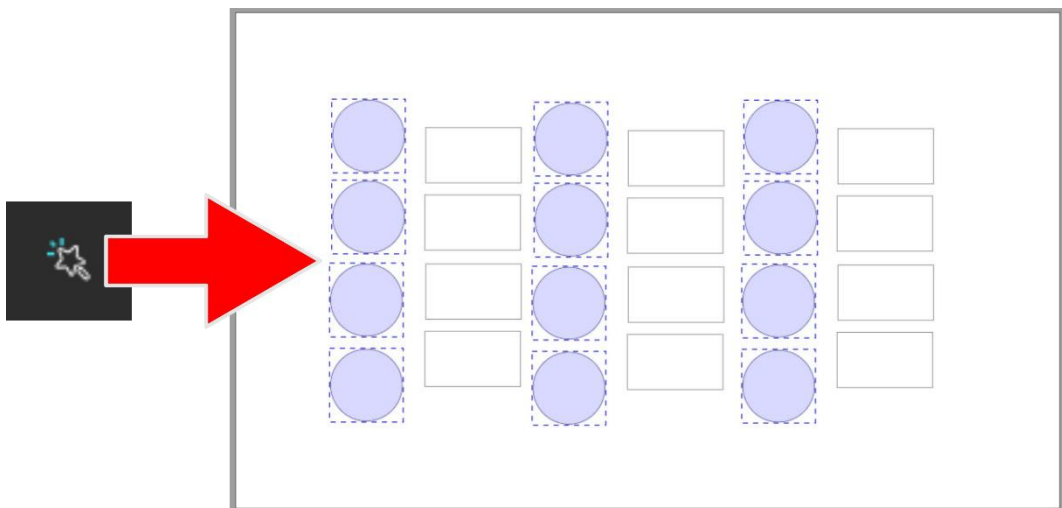


Using the traditional method, the user would need to select and modify each ellipse one by one, which may take several minutes. The Select-Same Tool greatly reduces operation time. You may refer to the example below for the detailed steps.

- 1) Select an ellipse.



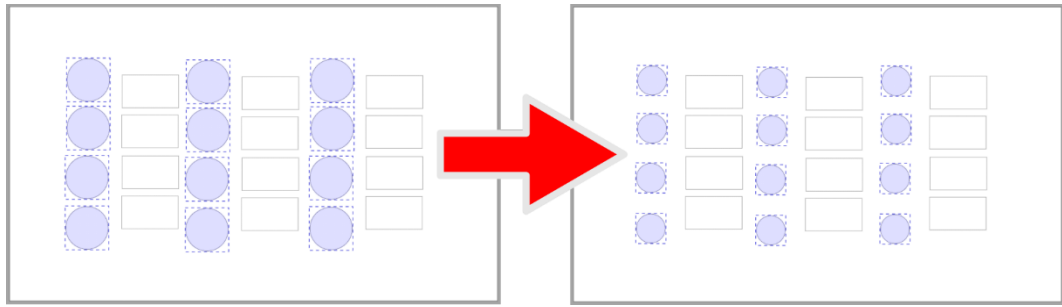
- 2) Click the **Select-Same** button. GCCLink will detect its size and automatically select all objects of the same size.



- 3) Enter a value in the W and H fields and press enter.



- 4) All ellipses will be resized simultaneously.



2.3.3 SmartEYES Configurations

This feature allows the user to set up and use the SmartEYES camera. Please refer to the following sections for more information.



Function		Description
	Administrator (For use by local dealers or distributors only)	Allows access to the administrator menu for advanced settings.
	SmartEYES Configuration Menu	Loads the SmartEYES calibration file and fine-tune the parameters. Please refer to chapter 2.3.2.1 – SmartEYES Configuration Menu for more details.
	Live View	Turns on the Live View camera. The live view window will appear automatically.
	Full Area Capture	Captures an image of the entire working area to make positioning easier.

2.3.2.1 SmartEYES Configuration Menu

This section will explain functions of SmartEYES configuration menu.

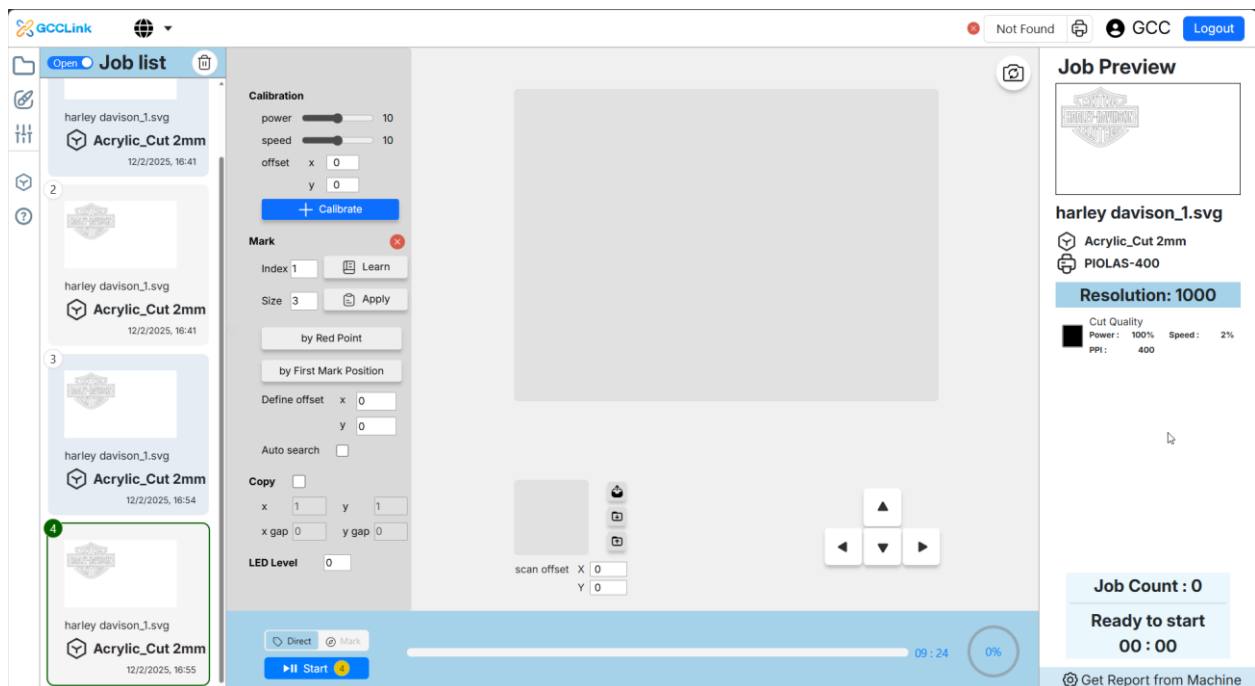
Function		Description
 A screenshot of the SmartEYES Configuration menu. It features a title 'SmartEYES Configuration' at the top, followed by five blue buttons with white text: 'Load calibration file from machine', 'Offset', 'Calibration', 'Backup Parameters', and 'Restore Parameters'. SmartEYES Configuration Load calibration file from machine Offset Calibration Backup Parameters Restore Parameters	Load calibration file from machine	Each machine (Spirit PRO and Piolas series) writes a SmartEYES calibration file into the machine's mainboard. Remember to load the calibration file before using SmartEYES to ensure correct capture size and scale.
	Offset	Set a value for X and Y to adjust the capture result.
	Calibration	Allows the user to run a SmartEYES calibration if the capture result is not precise.
	Backup Parameter	Backs up the SmartEYES calibration file to your computer.
	Restore Parameters	Restores the SmartEYES calibration file from your computer.

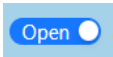
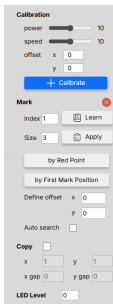
2.3.4 Mark Define

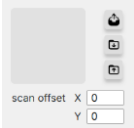
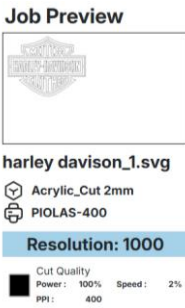
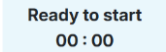
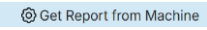
This function allows users to assign an object for the registration mark.

2.4 Sidebar Menu – Output Page

This page allows the user to manage output jobs, obtain the cycle time before laser processing, calibrate the SmartVISION Elite CCD, and retrieve daily reports from the machine.



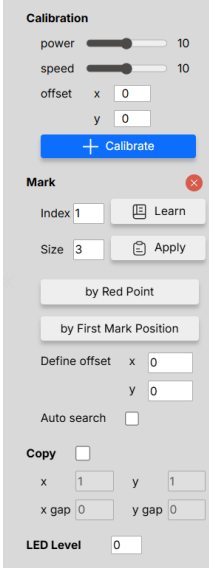
Function		Description
	Job List	All output jobs are stored in the Job List. The user can select a job and send it to the machine for processing.
	Job Auto-Load	Automatically load all output jobs when the user restarts GCCLink. Open: All output jobs will be loaded automatically when the user restarts GCCLink. Close: Output jobs will not be shown in the list when the user restarts GCCLink.
	Clear Job List	Deletes all jobs from the Job List.
	Calibration	Allows the user to calibrate the SmartVISION Elite CCD. For more details, please refer to Chapter 2.4.1 – Calibration.
	Job Status	Click the Start button to execute the selected job. The job number will be displayed on the button so the user can identify which job will be

		executed. The user can also check the simulated cycle time in the Job Status section before running the job.
	Camera Refresh	Click the button to retry the connection to the SmartVISION Elite CCD.
	Learned Mark Information	Shows the registration marks learned by the user. The user can also import a learned mark from the computer or export it back to the computer. (不知道 scan offset 是什麼意思)
	Movement Arrows Keys	Allows the user to move the SmartVISION Elite CCD using the arrow keys.
	Job Preview and parameters information	Shows the selected job's content, material, and parameters.
	Job Count	Shows how many times this job has been processed.
	Ready to start	Click it to open a large cycle time display.
	Get Report from Machine	Click the button and enter a specific date to retrieve the job log.

2.4.1 Calibration (for SmartVISION Elite CCD)

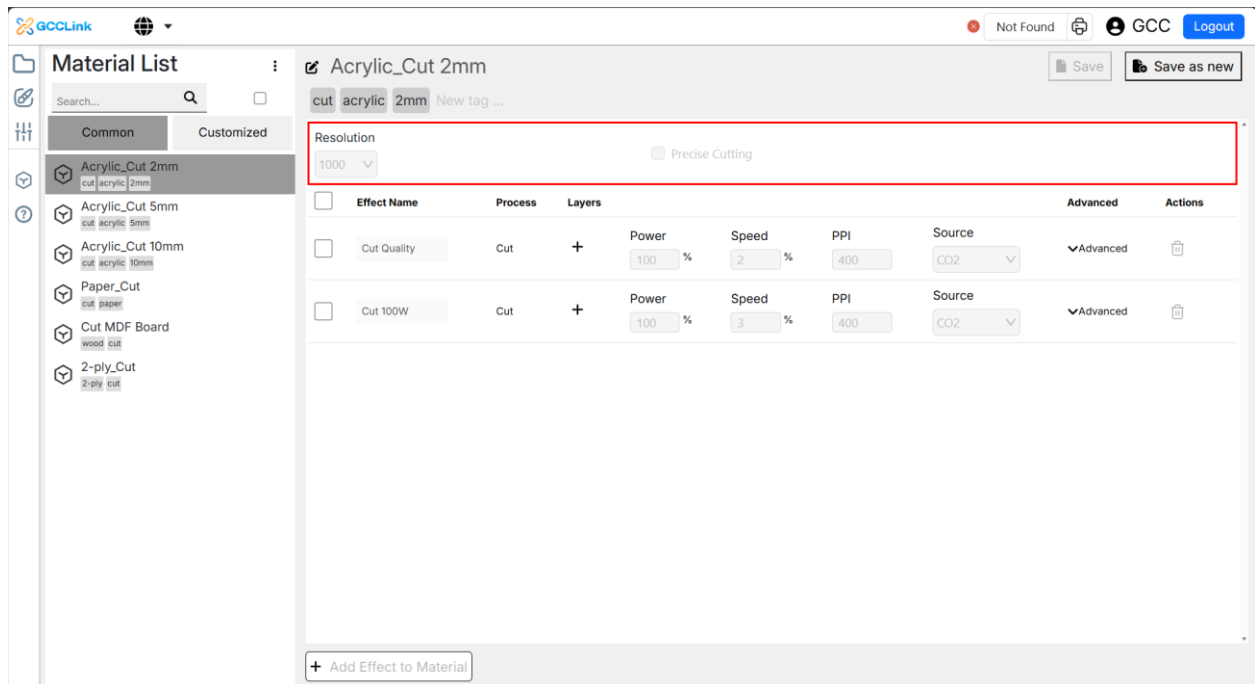
This feature allows the user to calibrate the SmartVISION Elite CCD, please refer to the following section for more information.

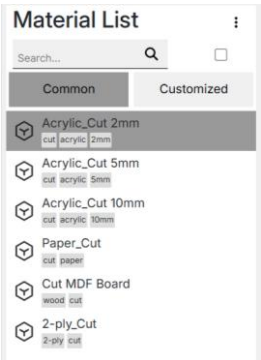
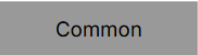
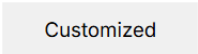
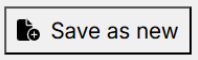
Function		Description
	Calibration Parameter	Adjust the parameters used for SmartVISION Elite CCD calibration. For more details, please refer to Chapter 3 – How to Calibrate the SmartVISION Elite CCD.

	Mark Index, Size, Learn, and Apply.	Set values for X and Y to adjust the capture result.
	by Red Point and by First Mark Position	Set how the SmartVISION Elite CCD moves to the first mark for learning. By Red Point: Move the lens carriage by hand until the red point is aligned with the first mark, then click the By Red Point button. The SmartVISION Elite CCD will move to the first mark and bring it into the camera's field of view (FOV) for learning. By First Mark Position: Click the By First Mark Position button. The SmartVISION Elite CCD will automatically move to the first mark based on the position defined on the Draw page and bring it into the camera's field of view (FOV) for learning.
	Define offset	
	Auto search	Check the Auto search checkbox to allow the SmartVISION Elite CCD to automatically search for nearby marks when it cannot detect them.
	Copy	Sets the distance to the next set of objects so that the SmartVISION Elite CCD can read the marks and perform the cutting. Please refer to Chapter for more details.
	LED Level	Sets the light level of the SmartVISION Elite CCD.

2.5 Sidebar Menu – Materials Page

This page allows you to manage materials and the parameter database.



Function	Description	
	Material List	All common and customized material databases will be shown on the list.
	Search	Searches for a material by name or tag.
	Common tab	Shows all common material databases in the list. Parameters for common materials cannot be modified.
	Customized tab	Shows all customized material databases in the list. Please refer to Chapter 2.5.1 – Customized Material for more details.
	Edit Parameters	After creating or saving new material in the Customized list, the user can set specific parameters here.
	Save as new	The user can click the Save as new button to save the selected material as new material to Customized list.

2.5.1 Common Material

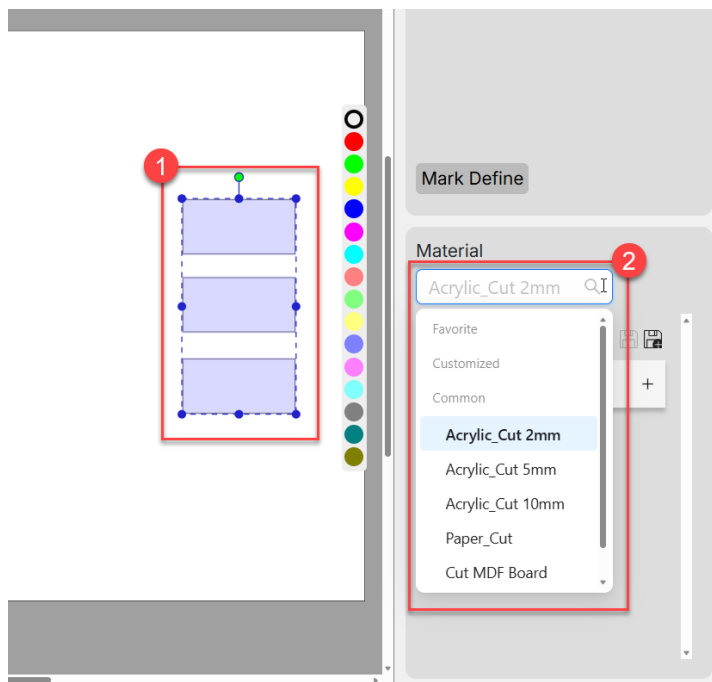
The common material list includes default material parameters, allowing users to quickly apply

suitable parameters for specific materials.

NOTE

Parameters of common materials cannot be modified. Please save a common material as a customized material if you want to change its parameters.

Using common materials is simple. After completing the graphic design, select the objects to which you want to assign a material. Then, click the **Material** drop-down menu and choose the material you want to use. The parameters will be applied automatically.



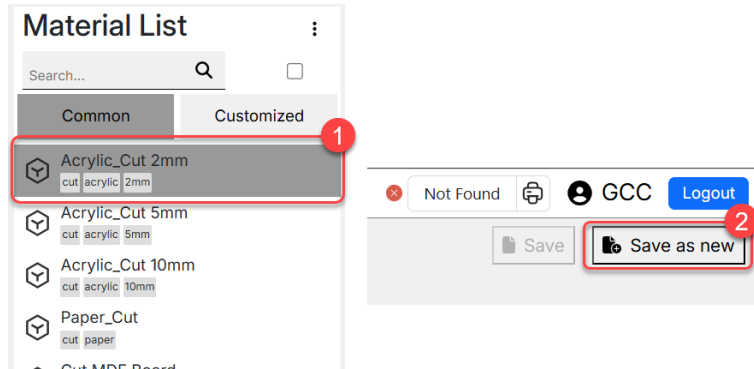
2.5.2 Customized Material

The customized material list allows the user to create / modify the parameters.

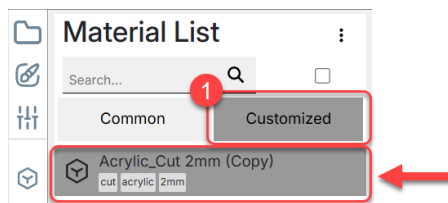
Please refer to the following steps to use the function.

2.5.2.1 Save common material as customized material

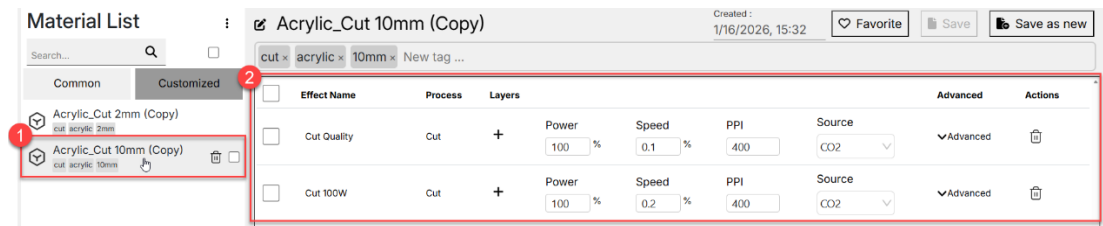
- 1) Select a material from common list, and click the **Save as new** button, then GCCLink will save a new material in the customized list.



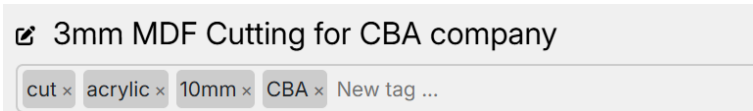
- 2) Switch to the Customized page and you will see the material shown in the list.



- 3) Click a customized material, and the parameters will be displayed on the right side of the window.



- 4) You can set a new name and tag for the customized material.

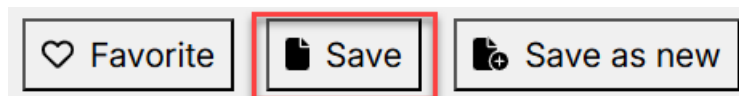


NOTE

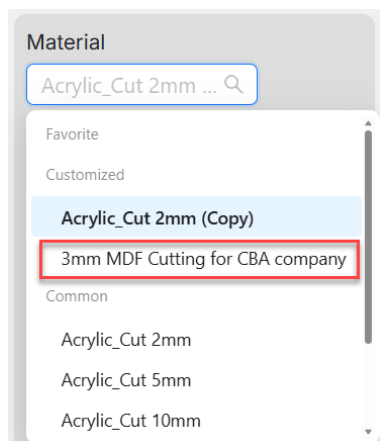
Adding a tag helps you find a material more easily.

For example, you can add a tag such as **CBA**, so you can quickly locate the material the next time you need to process the same item for the customer.

- 5) After setting the material name, adding tags, and adjusting the parameters, click the **Save** button to save the changes.

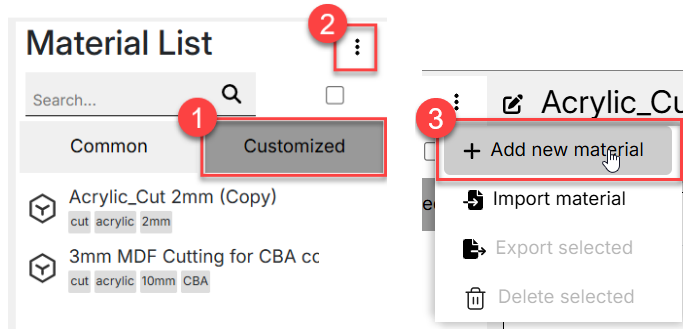


- 6) The customized material will be shown in the Material drop-down menu on the Draw page.

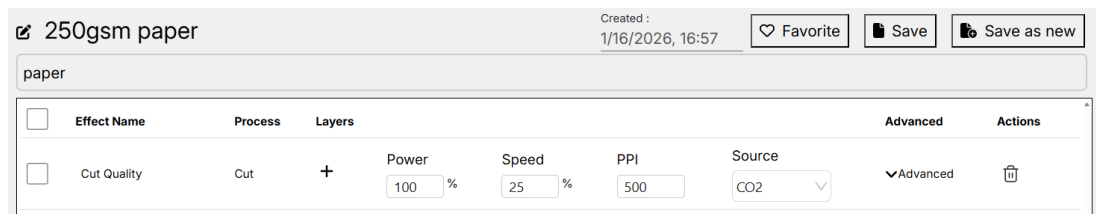


2.5.2.2 Add new material

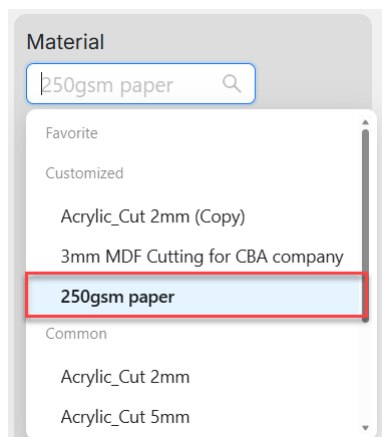
- 1) Switch to customized material page and click  icon, it is located at the right side of the material list, then select Add New Material button.



- 2) Set the material name, tags, and parameters, then click **Save** to save the changes.



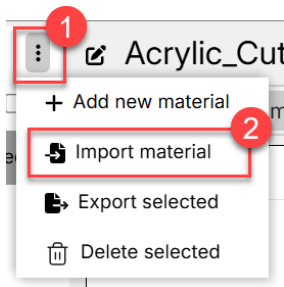
- 3) The customized material will be shown in the Material drop-down menu on the Draw page.



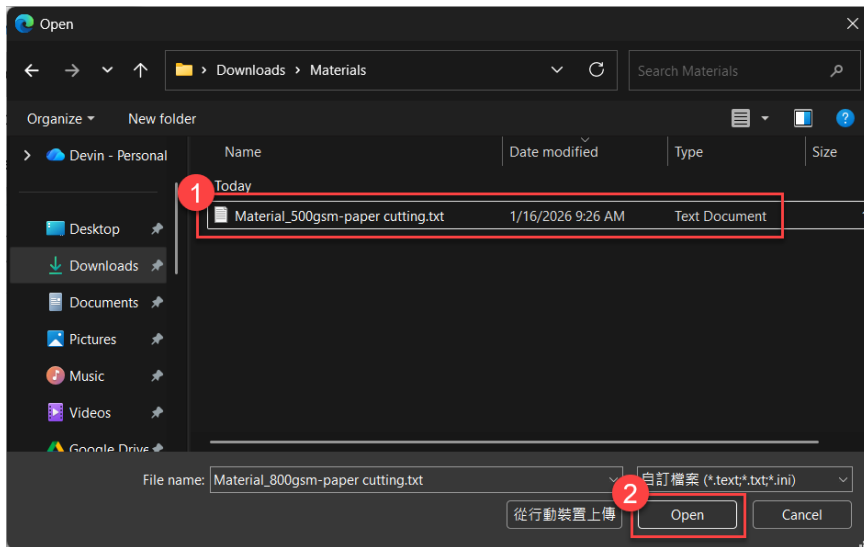
2.5.2.3 Import material

This function allows users to import materials.

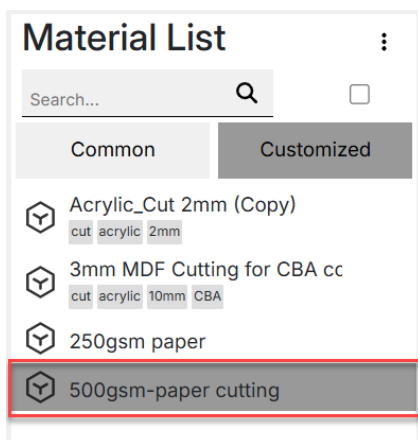
- 1) Switch to **Customized**, then click  icon located on the right side of the material list, then select **Import material**.



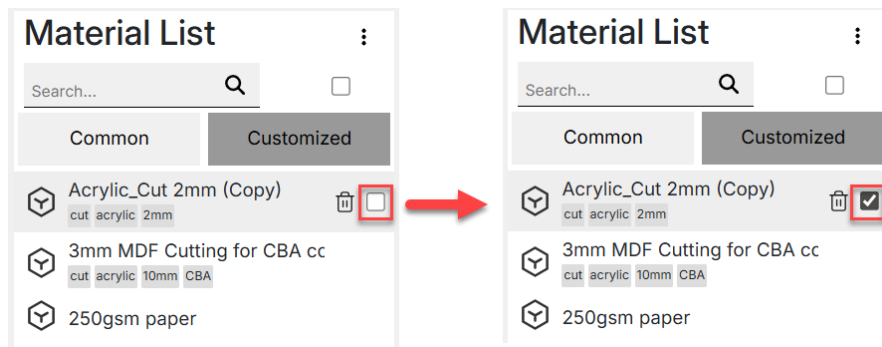
- 2) Select all materials you want to import on your computer, then click **Open** to import them.



- 3) The material will be shown in the customized after importing.



- 4) move the mouse cursor over the material you want to export and select the checkbox when it appears.



- 5) Click  icon located on the right side of the material list, then select **Export Selected**. The selected materials will be automatically saved as a ZIP file on your computer.

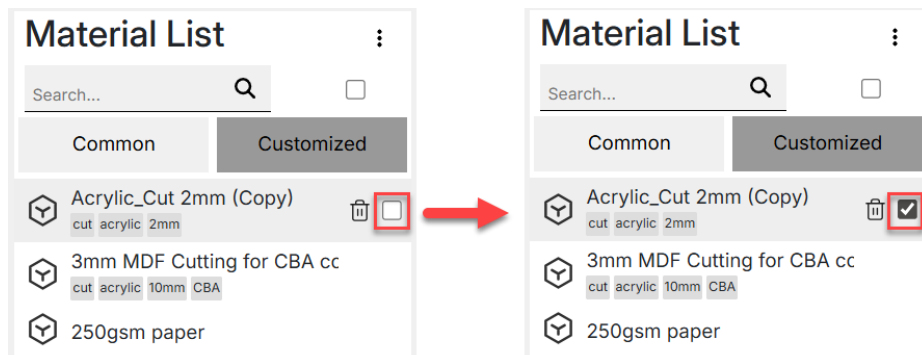
- 6) After unzipping the file, you will see all the exported materials.

Name	Type
 Material_3mm-MDF Cutting for CB...	Text Document
 Material_250gsm-paper.txt	Text Document
 Material_Acrylic_Cut-2mm (Copy).txt	Text Document

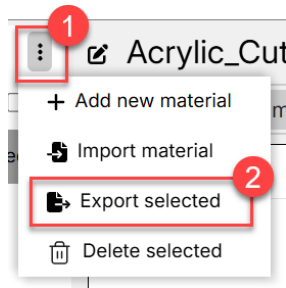
2.5.2.4 Export selected material

This function allows users to export materials for easy backup and transfer to other computers. Please refer to the following steps to export materials.

- 1) Switch to **Customized Material**, then move the mouse cursor over the material you want to export and select the checkbox when it appears.



- 2) Click  icon located on the right side of the material list, then select **Export Selected**. The selected materials will be automatically saved as a ZIP file on your computer.



- 3) After unzipping the file, you will see all the exported materials.

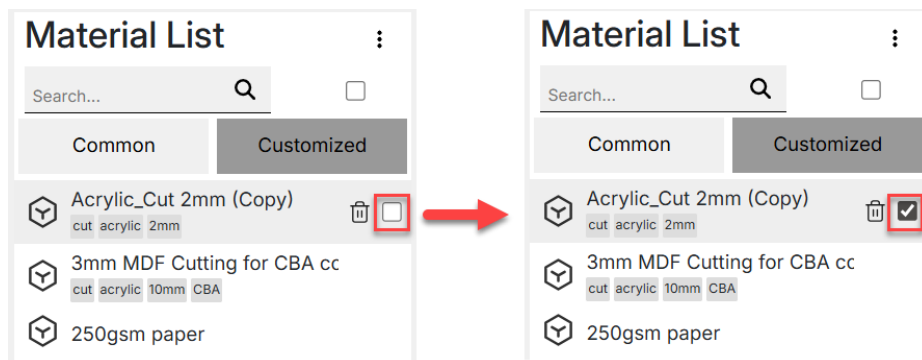
Name	Type
Material_3mm-MDF Cutting for CB...	Text Document
Material_250gsm-paper.txt	Text Document
Material_Acrylic_Cut-2mm (Copy).txt	Text Document

2.5.2.5 Delete selected material

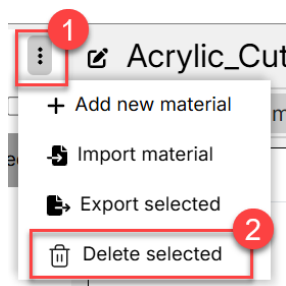
This function allows users to delete selected materials.

Please refer to the following steps to use this function.

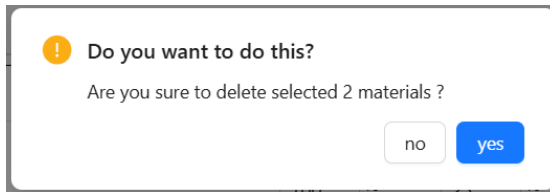
- 1) Switch to **Customized** tab, then move the mouse cursor over the material you want to delete and select the checkbox when it appears.



- 2) Click  icon located on the right side of the material list, then select **Delete Selected**.

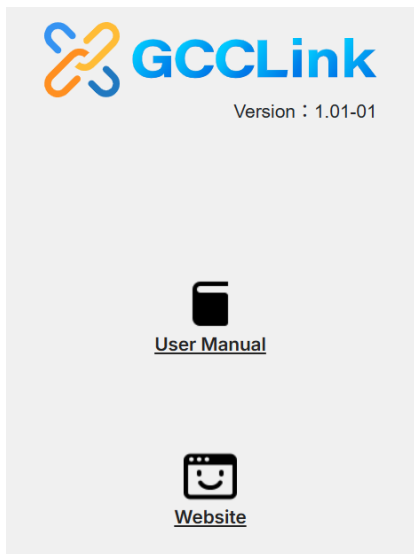


- 3) The system will display a warning, click **Yes** button to delete them.



2.6 Sidebar Menu – About Page

This tab allows the user to access the GCCLink user manual and visit the GCC official website with ease.



2.6.1 User Manual

Click to open the GCCLink user manual.

2.6.2 Website

Click to open the official GCC website.