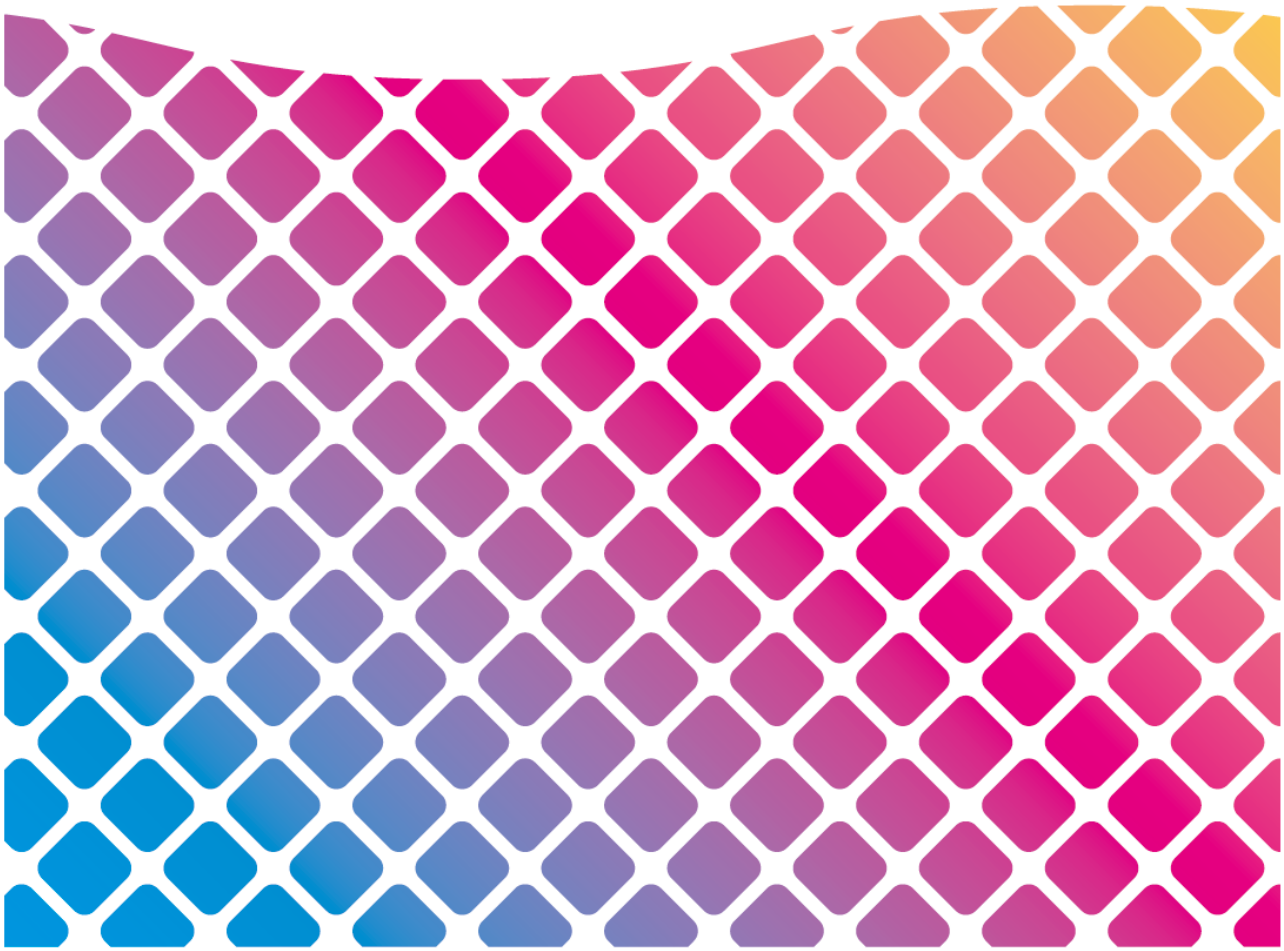
Software RIP

Raster Link 7



Reference Guide

MIMAKI ENGINEERING CO., LTD.

D203522-16

https://mimaki.com/

Table of Contents

Chapter 1 Basic Operations

Chapter 2 Menus

Chapter 3 Advanced Operations

Chapter 4 Useful Functions

Chapter 5 RasterLinkTools

Chapter 6 Troubleshooting

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About this Guide

This document describes the functions of RasterLink7.

Notation used in this guide

- The buttons and items displayed in screens are enclosed in square brackets [ ], such as [Finish] or [Full Color].

Symbols used in this guide

Description		
	Important	The "Important" symbol represents information you must be familiar with when using RasterLink7.
	Tip	The "Tip" symbol represents useful information to know.
	Reference Information	Indicates a reference page with related information. Click on the lettering to display the corresponding page.

How to obtain this manual and related manuals

The latest versions of this guide and related manuals are available at:

- Mimaki official site (https://mimaki.com/download/software.html)

Terminology

Terms	Explanation
Print data or image data	Data created by design software such as Adobe Illustrator.
Job	The work target created by reading with RasterLink7.
Scan	The direction in which the printer head moves.
Feed	The direction toward the rear of the printer.

Software Configuration

The software suite consists of the following software components.

	RasterLink7 Software for importing image data, editing jobs created, and controlling the printer.
	**Profile Manager** Software for managing device profiles and input profiles used with RasterLink7. (For details see the separate “RasterLink7 Installation Guide”)
	RasterLinkTools Plug-in software for Adobe Illustrator for creating printing and cutting data and special color data. (☞ "RasterLinkTools"(P. 231))
	**License Tool** License authentication is required in order to use RasterLink7. The License Tool is a tool for license authentication. (For details, refer to the separate “RasterLink7 Installation Guide”)
	**Update Tool** Tool for downloading and applying the latest version of programs and profiles. (For details, refer to the separate “RasterLink7 Installation Guide”)

Chapter 1 Basic Operations

This chapter

Describes basic operations for RasterLink7

1.1 Starting RasterLink7

Start RasterLink7 from the desktop shortcut or Start menu.

1.1.1 Starting from the Desktop Shortcut

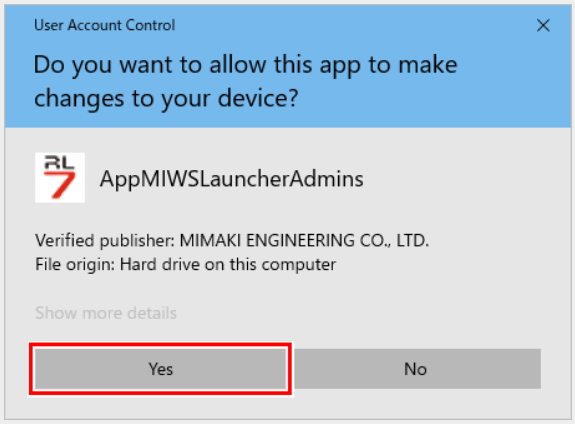
1 **Double-click the [RasterLink7] icon [ ] on the desktop.**

- A User Account Control dialog appears.

2 **Click [Yes].**

Important! User Account Control

- If a shield symbol is displayed on the shortcut icon, a User Account Control dialog will appear when you start RasterLink7. Click [Yes].



1.1.2 Starting from the Start Menu

● With Windows 8.1

Click the arrow icon at the bottom left of the Start screen, then select [Mimaki RasterLink7] - [Mimaki RasterLink7].
Click [Yes] on the User Account Control dialog that appears.

● With Windows 10

Select [Mimaki RasterLink7] - [Mimaki RasterLink7] from the Start menu.
Click [Yes] on the User Account Control dialog that appears.

1.2 Importing Print Data

Print data can be imported using any one of the following four methods:

- Importing from the [File] menu
- Importing from the Hot Folder
- Sending from the Printer Driver
- Dragging and Dropping to the Job List

A job will be created from the imported print data.

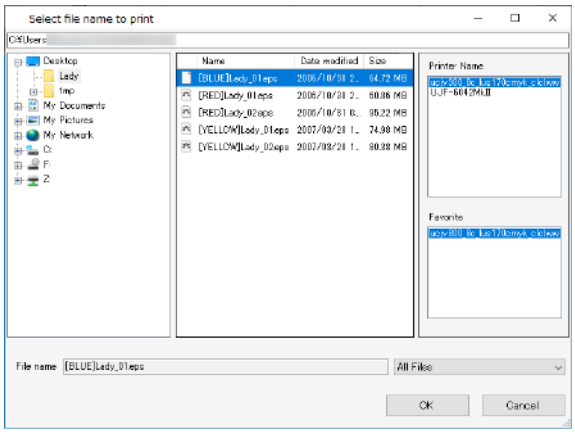
Important!
- Up to 200 jobs can be created, including all registered printers. For more information, refer to "Maximum Number of Jobs That Can be Registered"(P. 13).

1.2.1 Importing from the File Menu

1 Select [File] - [Open].

- The [Select file name to print] dialog appears.

- The dialog can also be displayed by pressing Ctrl + O.



2 Select the print data.

- Multiple print data files can be selected.
  Shortcut files to print data cannot be selected.

3 Select a printer from [Printer Name].

4 Select the favorite settings to be applied in [Favorite].

- RasterLink7 lets you save various settings as favorites. Previously saved settings can also be applied to newly imported print data.
- The favorite settings selected for importing will be selected automatically the next time data is imported.

5 **Click [Open].**

- Print data will be imported, then a new job will be created.

1.2.2 Importing from the Hot Folder

1 **Copy print data to the hot folder.**

- A job will be created.
- The favorite settings will automatically be applied to the job created.

- The hot folder will automatically be set as shared when created.
- For details of how to create a hot folder, refer to ☞ P. 145.
- For more information on using hot folders over a network, refer to the separate "RasterLink7 Network Connection Guide".

1.2.3 Sending from the Printer Driver

1 **Prints using the software with which the print data was created.**

- A job will be created.
- The favorite settings will automatically be applied to the job created.

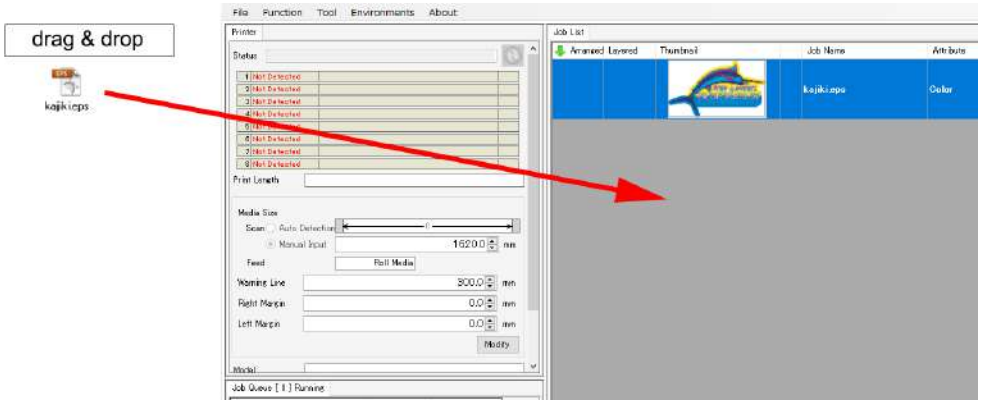
- The printer driver will automatically be set as shared when created.
- For details of how to create the printer driver, refer to ☞ P. 145.
- For more information on using printer drivers over a network, refer to the separate "RasterLink7 Network Connection Guide".

Important! If print data does not appear in the job list after it has been imported from a printer driver, check the following:

- If multiple printers are registered in RasterLink7, the printer to which the print data was imported may differ from the printer currently displayed.
  Select the [Printer] tab.
- No more than 200 jobs can be imported. Print data cannot be imported if this number is exceeded. Check whether an error message has appeared.

1.2.4 Dragging and Dropping to the Job List

1 **Drag and drop the print data to the [Job List] tab.**



- The [Select file name to print] dialog appears.

2 **Select a printer from [Printer Name].**

3 **Select the favorite settings to be applied in [Favorite].**

4 **Click [OK].**

- Print data will be imported, then a new job will be created.

1.2.5 Maximum Number of Jobs That Can be Registered

The maximum number of jobs that can be registered on the job list is 200, including all registered printers. If you attempt to import more than 200 jobs, the following message is displayed. Any additional jobs you attempt to register will be canceled.
Message: "The maximum number [200] of registered jobs has been exceeded. No more jobs can be registered. Please delete unnecessary jobs." For more information, refer to ☞ "Dealing with Error Messages"(P. 256).

- Jobs that include cutting are counted as two jobs, since they are composite jobs consisting of both a regular job and a job with cutting attributes.

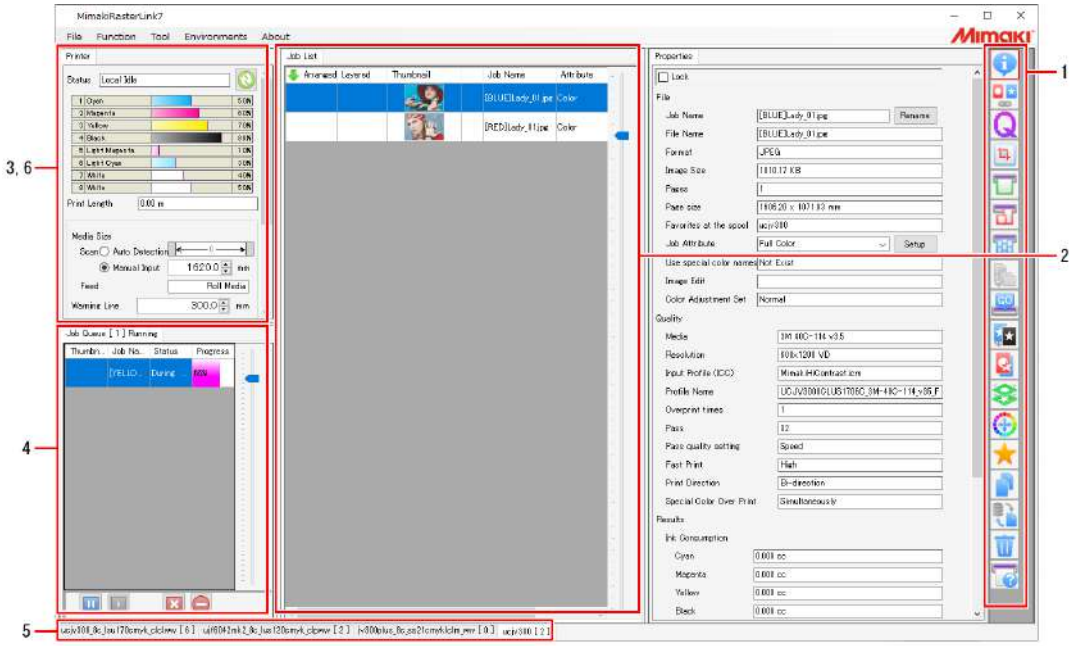
1.3 Job Operations

1.3.1 Job Operations - Functions

RasterLink7 allows you to edit jobs created by importing image data.

1.3.2 Job Operations - Screen Layout

● Explanation of screen



1. Function icons

Click on an icon to go to the setup screen for the corresponding functions. The icons for functions that are not available are grayed out. A scroll bar is displayed if there are more icons than can fit on the screen.

Important!

- The icons displayed will vary depending on the printer being used.
- The icons that can be selected will vary depending on the individual job.
- The icons can be resized, and unwanted icons can be hidden. For more information, refer to "Setting a function icon"(P. 201).

2. [Job List] tab

Displays the job list. This is displayed when any of the following functions are selected:

[Properties], [Arrange], [Composite], [Special plate], [Execute], [Duplicate], [Backup], [Delete]

3. [Printer] tab

Displays information on the currently connected printer. This is displayed when any of the following functions are selected:

[Properties], [Arrange], [Composite], [Special plate], [Execute], [Duplicate], [Backup], [Delete]

Important!

- The details displayed will vary depending on the printer being used.

4. [Job Queue] tab

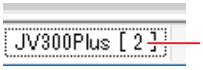
- Displays the image data importing, RIP, and print status. This is displayed when any of the following functions are selected:
  [Properties], [Arrange], [Composite], [Special plate], [Execute], [Duplicate], [Backup], [Delete]

- "Auto executing" is displayed on the [Job Queue] tab when auto execution starts ☞ P. 192.

- The process order can be altered, and jobs can be paused, restarted, or stopped. For more information, refer to ☞ "[Job Queue] tab"(P. 100).

5. [Printer Select] tab

Selects the corresponding screen for each printer registered in [Printer Management]. The total number of jobs created for that printer appears next to the printer name.



Important! • No more than 200 jobs can be imported for all of registered printers. ☞ "Maximum Number of Jobs That Can be Registered"(P. 13)

6. [Print progress] tab

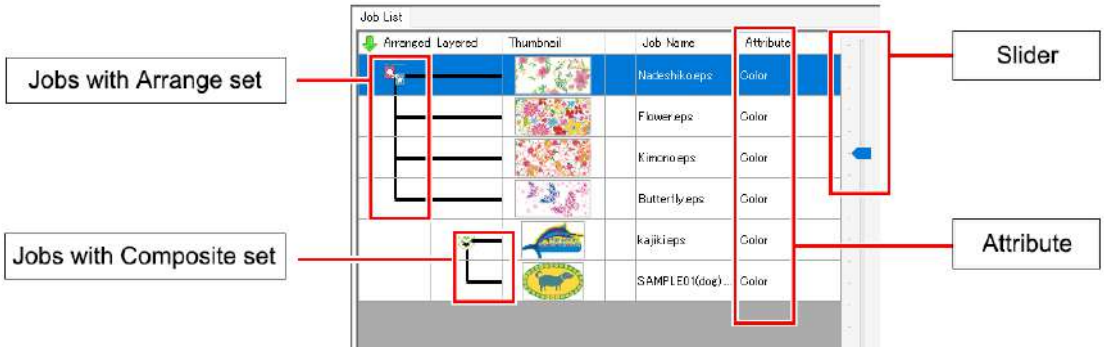
When opening this tab while printing a job, the print start time and scheduled print end time are displayed.

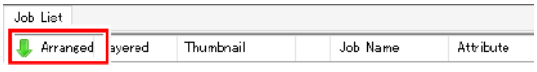
- Displays the job print progress on the following printer models.
  JV300, JV150, CJV300, CJV150, UCJV300, JV300 Plus, and CJV300 Plus, JV100, TS100
- This is displayed when the [Environments] - [Option] - [Display] - [Display print progress] check box is selected, and RasterLink7 is restarted. ☞ "Set the display"(P. 195)

Important! • The print progress does not appear when Print & Cut jobs or pull back printing is set.

● [Job List] window

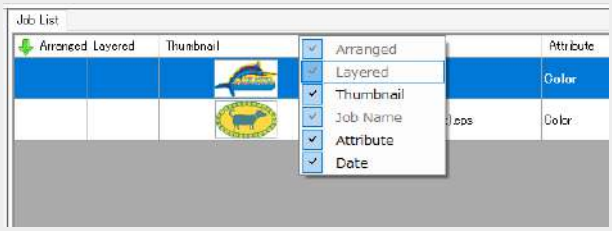
- **Explanation of columns**



[Arrange]	Arranged jobs are linked by lines ☞ "Arrange - Functions"(P. 35). The jobs can be rearranged in ascending or descending order of job name by clicking [Arrange] in the title row. 
[Composite]	Composite jobs are linked by lines ☞ "Composite"(P. 108).
[Job Name]	Displays the job names. This can be changed in Job Properties ☞ "Properties - Functions"(P. 28).

[Thumbnail]	Displays the job thumbnails.	
[Attribute]	Color	Jobs created by importing image data
	Special color inks such as white	Full-color jobs set to be printed in monotone ☞ P. 30 and jobs created using ☞ "Special plate"(P. 103)
	Cut	Cutting jobs
Date	Displays the date on which the job was registered.	

- Ripped data appears in bold font.
- The slider on the [Job List] tab can be moved up and down to adjust the list spacing.
- Right-click a column of the [Job List] to display a pop-up menu, allowing you to display or hide individual columns. Columns are displayed if they are checked on the menu.

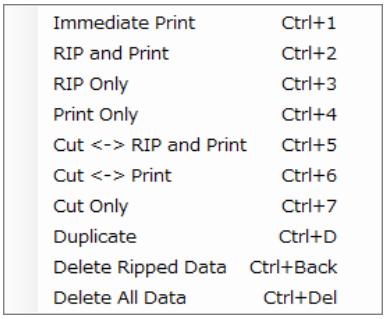


- **Explanation of job background colors**

Color		Status
	(white)	Queued
	(green)	Executed • When printing only for Print & Cut jobs, the color changes for the print job only. • When cutting only for Print & Cut jobs, the color changes for the cut job only.
	(cream)	Printed, but no ripped data exists • [Immediate Print] has been executed and completed • [RIP and Print] or [Print Only] has been executed and completed with the [Delete ripped data after print] checkbox checked
	(pink)	Aborted
	(magenta)	Error
	(blue)	Currently being executed

- **Explanation of pop-up (right-click) menu**

Select a job and right-click to display a pop-up menu.



[Immediate Print] [RIP and Print] [RIP Only] [Print Only] [Cut <-> RIP and Print] [Print <-> Cut] [Cut Only]	Executes the selected job ☞ "Execute"(P. 98).
[Duplicate]	Duplicates the selected job ☞ "Duplicate"(P. 146).
[Delete Ripped Data]	Deletes the ripped data for the selected job ☞ "Delete"(P. 151).
[Delete All Data]	Deletes the selected job ☞ "Delete"(P. 151).

- When double-click the job of [Job List], moves to the General Print screen ☞ "General Print - Screen Layout"(P. 61).

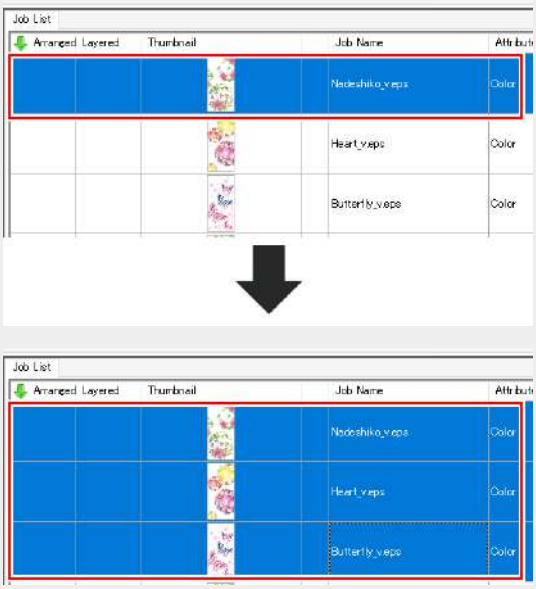
1.3.3 Job Operations - Operations

The procedure for printing a single image is as follows.

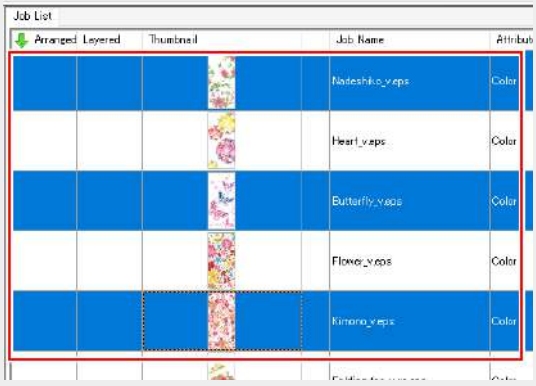
1 Click a job in [Job List].

- The job is selected.

- To select multiple consecutive jobs, select the first job, then select another job while depressing the [Shift] key.



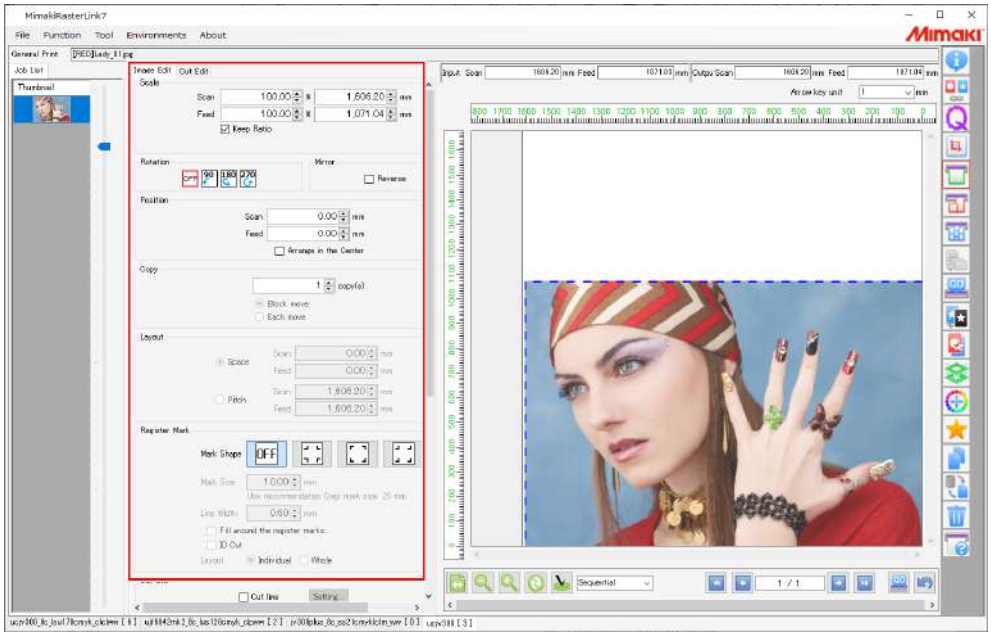
- To select multiple jobs, select jobs while depressing the [Ctrl] key.



2 Select the required function from the [Function] menu or the corresponding function icon.

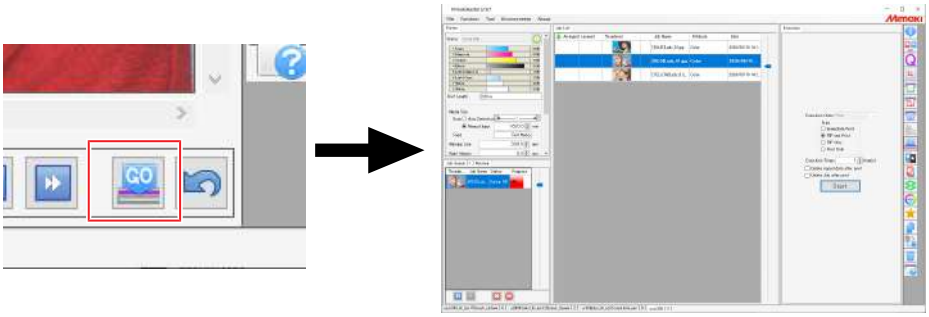
- This switches to the corresponding function screens ☞ "Explanation of screen"(P. 14).

3 Configure the various settings for the jobs.



4 Select [Execute] from the [Function] menu or the function icon.

- This switches to the [Execute] screen ☞ "Execute - Screen Layout"(P. 98).



- The printing method will depend on the execution method last set. For more information on the execution methods, refer to ☞ P. 99.

1.4 Log Display

Displays the job progress status.

1.4.1 Log Display - Functions

RasterLink7 displays job progress status information (errors, warnings, and execution results) using the following methods.
It is possible to switch between display methods.

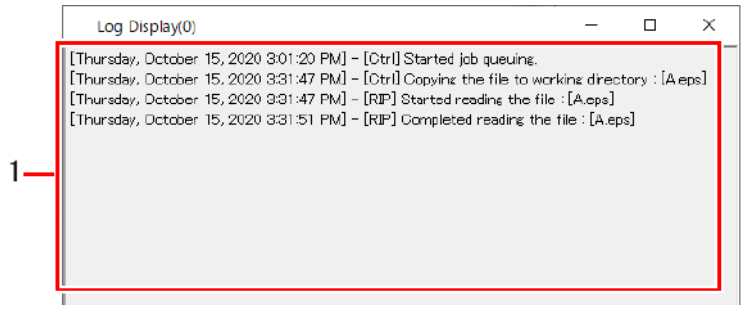
- RasterLink7 [Log Display] screen.
- Windows notification function: For errors and warnings

Important!

- RasterLink7 warnings and errors will not be displayed if the Windows notification function is turned off.
  The notification function should be turned on if you require warnings and errors to be displayed.

1.4.2 Log Display - Screen Layout

● [Log Display] screen



1	Message display area	Displays messages.

● Error and warning display screen

When errors and warnings occur in RasterLink7, these are displayed as pop-up messages in the PC task tray (bottom right of the PC screen).

1	Message type	Indicated as [Warning] or [Error].
2	Message display area	Displays errors and warnings.

1.4.3 Log Display - Operations

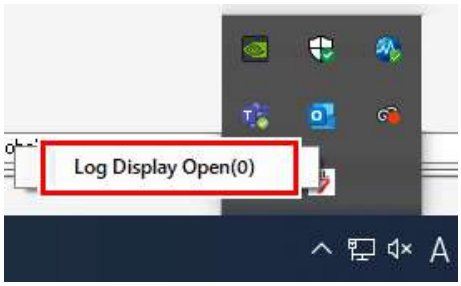
● Display [Log Display] screen

1 **Open the task tray at the bottom right of the Windows screen.**

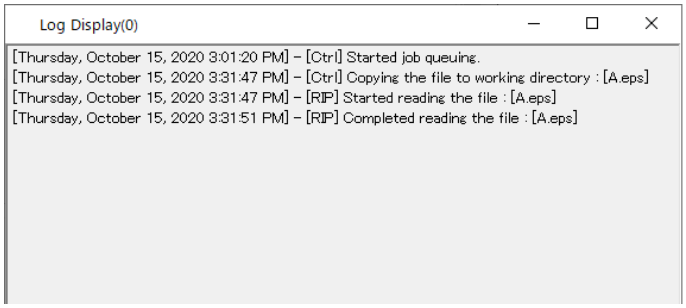
- The icons are displayed for the resident programs in the task tray.

2 **Click the RasterLink7 icon.**

- Or right-click, then click [Open Log Display].



- The [Log Display] screen is displayed, displaying the message details.



- Messages are displayed in different colors according to their type.
  Red: Error
  Blue: Warning
  Black: Regular

- Closing the [Log Display] screen reverts to the Windows notification function.

1.5 Exiting RasterLink7

RasterLink7 can be exited using any one of the following procedures.

- Select [File] - [Exit].
- Click the × at the top right of the window.
- Keyboard shortcut: Press the [Q] key while holding down the [Ctrl] key.

Important!

- The various job settings are saved automatically when exiting RasterLink7.
- The last used state will be restored when RasterLink7 is next started.

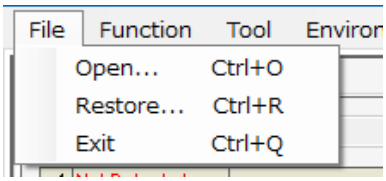
Chapter 2 Menus

This chapter

Explains the RasterLink7 menu items.

2.1 File (Open/Restore/Exit)

The [File] menu at the top of the main screen allows the following operations.



● Open...

Selects and imports print data. For more information, refer to ☞ "Importing Print Data"(P. 11).

● Restore

Imports a job backup file as a current job. For more information, refer to ☞ "Backup"(P. 148).

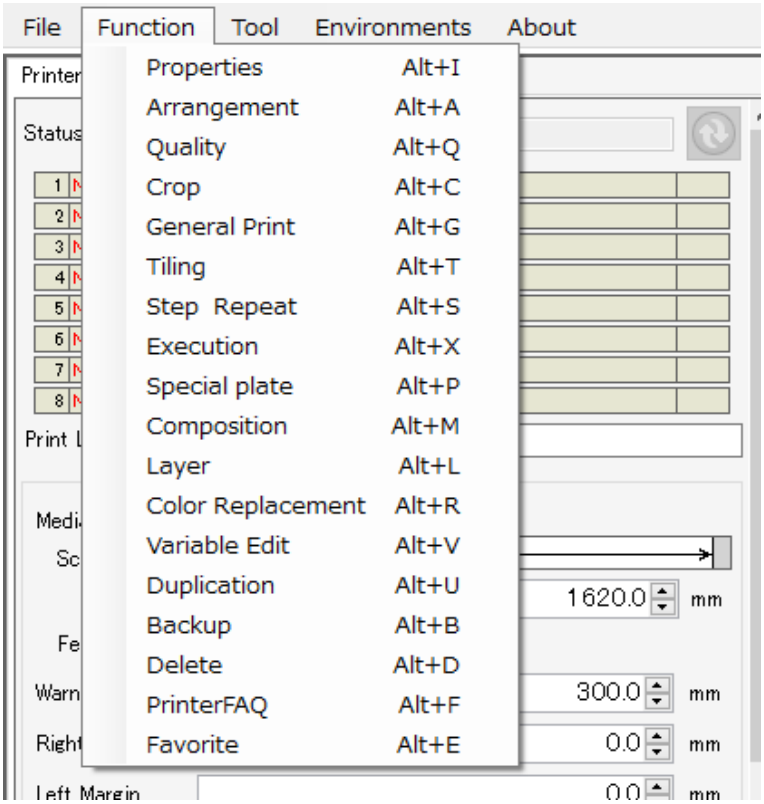
● Exit

Exits RasterLink7.

2.2 Function

The [Function] menu displays the function icons ☞ "Function Icon List"(P. 26) as a menu.

- The [Function] menu can be hidden using the [Function icon setting]. For more information, refer to ☞ "Setting a function icon"(P. 201).
- The [Function] menu also displays those functions set to be hidden in Step 6 of [Function icon setting].



2.2.1 Function Icon List

Icon[*1]	Function	Explanation	Shortcut key	Details
	Properties	Displays the job and printer information and allows the job attributes to be edited.	Alt+I	☞ P. 28
	Arrange	Combines multiple jobs into a single job.	Alt+A	☞ P. 35
	Print Condition	Sets the print conditions.	Alt+Q	☞ P. 42
	Crop	Crops part of a job.	Alt+C	☞ P. 58
	General Print	Sets basic parameters such as job size, position, and number of copies before printing.	Alt+G	☞ P. 61
	Tiling	Divides large jobs before printing. This function is unavailable with the default settings when using a flatbed printer. [*2]	Alt+T	☞ P. 79
	Step & Repeat	Lays out image data with no gaps between them before printing. This function is unavailable with the default settings when using a flatbed printer. [*2]	Alt+S	☞ P. 91
	Variable Edit	It extracts information from the database and prints out jobs with different contents one by one. For details see the separate "RasterLink7 Variable Print Guide".	Alt+V	-
	Execute	Prints and cuts the selected job.	Alt+X	☞ P. 98
	Special plate	Creates a job specifically for a special color ink from the selected job. This function is displayed for printers equipped with special color ink.	Alt+P	☞ P. 103
	Composite	Combines multiple jobs on top of each other.	Alt+M	☞ P. 108
	Layer	Configures the detailed settings for jobs printed with overlaid color and special color ink. This function is displayed for printers equipped with special color ink.	Alt+L	☞ P. 118
	Color Replacement	Replaces the job colors with different colors.	Alt+R	☞ P. 124
	Favorite	Saves and manages the various function settings as a favorite.	Alt+E	☞ P. 139

Icon*1	Function	Explanation	Shortcut key	Details
	Duplicate	Duplicates the selected job.	Alt+U	☞ P. 146
	Backup	Creates a job backup file. Restores a backed-up job from a file.	Alt+B	☞ P. 148
	Delete	Deletes a job.	Alt+D	☞ P. 151
	Printer FAQ	Opens the printer support page on the Mimaki website.	Alt+F	☞ P. 228
	Jig Print	Positions the job on a jig before printing. This function is displayed for flatbed printers.	Alt+J	☞ P. 153

*1. When using the following models, the Kebab Jig Print icon will also be displayed in addition to those described above. For more information about this function, refer to the following separate manual.
・ UJF-3042MkII, UJF-3042MkII EX, UJF-6042MkII, UJF-7151
"Kebab MkII/MkII-L System Operation Manual"

*2. Hidden icons can be displayed using Printer Management ☞ "Setting a function icon"(P. 201).

Important!
- Some functions may not be displayed depending on the particular printer or inkset.
- Depending on the Job settings, these cannot be selected (grayed out).

2.2.2 Properties

Displays the job and printer information and allows the job attributes to be edited.

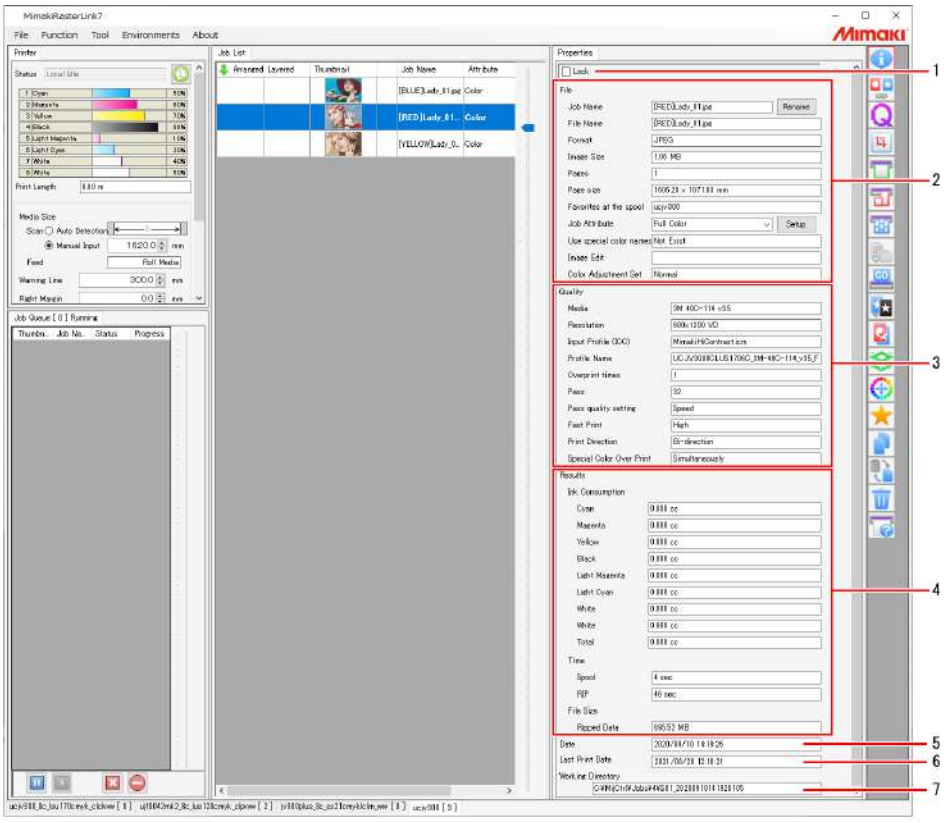
Properties - Functions

[Properties] allows the following operations.

- Rename a job
- Change a full-color job to a monotone job
- Edit the settings for a special color job
- Change the UV mode settings.
- Check job information

Properties - Screen Layout

● [Properties] screen



1. [Lock]

Enabling this prevents the selected job settings from being altered or deleted.
A padlock icon is displayed in the [Job List] as shown below.

Important!

- Enabling this disables all functions except [Backup], [Execute].
- If even one job in a composite or arranged job is locked, all of the composite or arranged jobs will be locked.

2. [File]

Displays the selected job and original image data information.

[Job Name]	:	Displays the job name. The default job name is the same as the original image data file name. The job name can be edited as required by the user ☞ "Rename a job"(P. 30).
[File name]	:	Displays the original image data file name.
[Format]	:	Displays the format of the original image data.
[Image Size]	:	Displays the size of the original image data file.
[Pages]	:	Displays the number of pages for the job.
[Page size]	:	Displays the size of each page.
[Favorites at the spool]	:	Displays the favorite applied when the job was imported.
[Job Attribute]	:	Displays the following attributes depending on the printing method. The settings can be edited. [Full Color] A job to be printed using the original image colors. (Default setting) [Mono Color] This can be set when the original image data is in CMYK color mode. A job to be printed by assigning C, M, Y, or K to a specified ink color. For details and settings, refer to ☞ "Print a full-color job in monotone"(P. 30). [Special Color] A job created using "Special plate" ☞ "Special plate"(P. 103). This cannot be changed to other attributes. For details and settings, refer to ☞ "Special plate"(P. 103). [Cut Only] A cut data job. This cannot be changed to other attributes. For more information on "Print & Cut", refer to ☞ "Print & Cut"(P. 213).
[Use special color names]	:	Displays special color inks (such as white and clear) used for printing the job.
[Image Edit]	:	Displays the settings (such as copy) made for the job.
[Color Adjustment Set]	:	Displays the color adjustment set used with the job.

3. [Print Condition]

Displays the following print conditions set in "Print Condition" ☞ "Print Condition"(P. 42).

- [Media]
- [Profile Name]
- [Fast Print]
- Individual heater settings
- [Resolution]
- Overprint times
- [Print Direction]
- [Input Profile (ICC)]
- [Pass]
- [Special Color Over Print]

4. [Results]

Displays the various results after ripping and printing.

[Ink Consumption]	:	Displays the ink amounts consumed in printing for each individual ink, calculated from the ripped data.

- This box is not displayed if [Ink Consumption] calculations are disabled in the "Option" ☞ "[Option]"(P. 193) settings.
- [Ink Consumption] cannot be calculated unless the printer is connected.

[Time] : Displays the time taken for individual processes.
[File Size] : Displays the size of ripped data.

5. [Date]

Displays the date on which the job was registered.

6. [Last Print Date]

Displays the date and time when the last printing was performed.

7. [Working Directory]

Displays the name of the working folder in which job information is saved.

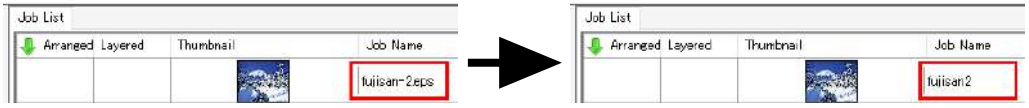
Properties - Operations

● Rename a job

Jobs can be renamed. Jobs should be renamed to make them easier to identify, for example if the same image has been imported multiple times or if jobs have been duplicated.

1 Enter a suitable name for [Job Name] in the [Properties] tab, then click [Rename].

- The job will be renamed.
- [Job Name] in the [Job List] will also be changed accordingly.



● Print a full-color job in monotone

This is used in situations such as when printing with special color inks (e.g., white or clear).

Important!
- This can be set when the original image data is in CMYK color mode.
- This operation can also be used with vector or raster images.
- [Job Attribute] of job which is set [Variable Edit] can't change.

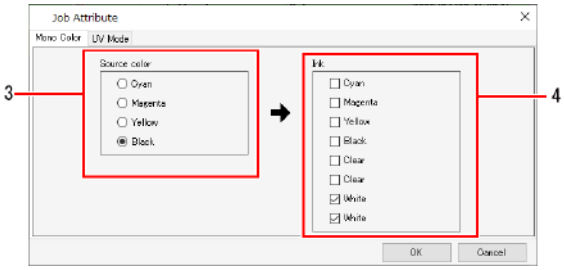
1 Select a job for which [Job Attribute] is set to [Full Color] in the [Properties] tab.

2 Select [Mono Color] in the [Job Attribute] list.

- The [Job Attribute] dialog appears.

3 Select the color in the original image to be replaced in [Source color].

4 **Select the ink color to be used in [Ink].**

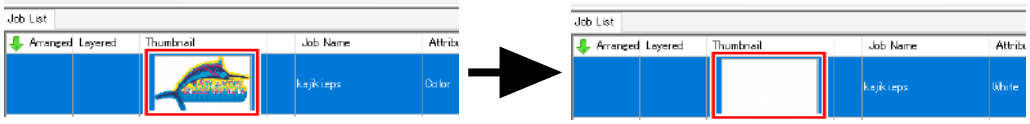


- If more than one identical color exists, that ink color can be selected multiple times.

Important!
- In the case of full-color images, information for colors other than those specified as [Source color] will be discarded and those colors will not be printed.
- The ink density for printing will use the density for [Source color].
- With a UV printer, the UV mode settings may vary depending on the ink after replacement. Recheck the [UV Mode] tab.

5 **Click [OK].**

- [Job Attribute] will be changed to [Mono Color] in the [Properties] tab.
- [Thumbnail] and [Attribute] in the [Job List] tab will be updated to match the conditions set.



● Editing the settings for a special color job created using Special plate

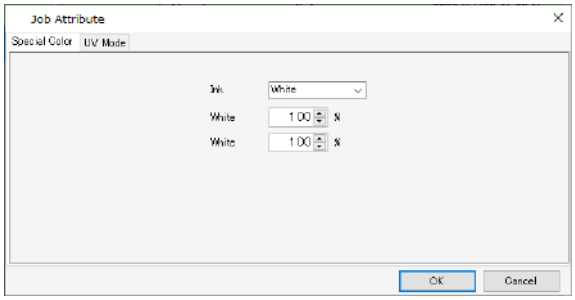
The ink color and ink density can be changed for special color ink if [Job Attribute] is set to [Special Color].

1 **Select a job for which [Job Attribute] is set to [Special Color] in the [Properties] tab.**

2 **Click [Setup] for [Job Attribute] in the [Properties] tab.**

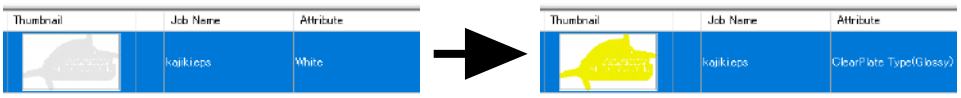
- The [Job Attribute] dialog appears.

3 **Set [Ink] and the corresponding ink density.**



4 **Click [OK].**

- The [Thumbnail] and [Attribute] in the [Job List] will be updated accordingly if the ink is changed.



● Edit UV settings

The UV settings can be edited if using a UV printer.

1 **Click [Setup] for [Job Attribute] in [File].**

- The [Job Attribute] dialog appears.

2 **Set the UV mode (printing method) for printing.**

- The details that can be set will vary depending on the individual model and job attributes.

3 **Click [OK].**

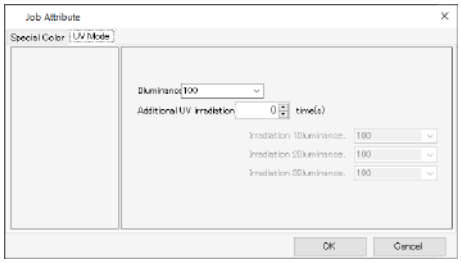
- The UV settings are applied.

- For more information about color glossy printing, refer to the separate "Color Glossy Print Guide".

・ If [Job Attribute] is "Color", "White", or "Primer"

- If the job attribute is "Primer" for a printer that supports primer glossy printing, refer to "If [Job Attribute] is "Clear"" in the next section. At that time, please consider "Clear" as "Primer" in the description.
- It may not be possible to set depending on the conditions such as printer and ink.

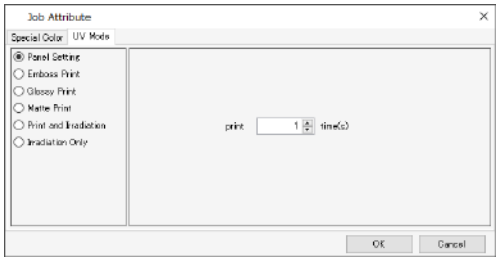
Set the UV lamp illuminance.



- **If [Job Attribute] is "Clear"**

- UV modes are not displayed if they are not supported by the printer.

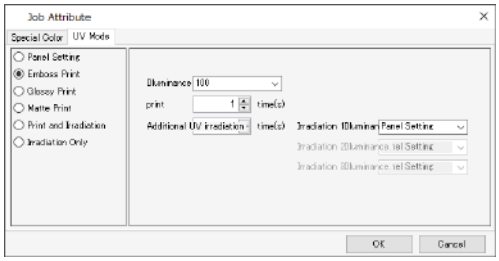
[Panel Setting]



The UV illuminance will be the value set on the printer panel.

Allows the number of clear plate overlaps to be set.

[Emboss Print]



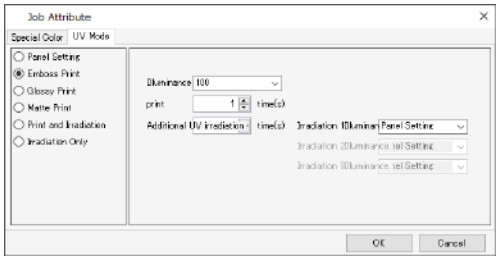
Allows embossing to be achieved by overlay printing with clear ink multiple times.

[Illuminance] : Sets the illuminance for printing.

[Print] : Sets the number of overlay printing times.

[Additional UV irradiation] : With emboss printing, the ink does not cure with irradiation alone when printing, thus necessitating additional irradiation. Set the number of irradiation cycles together with the irradiation illuminance.

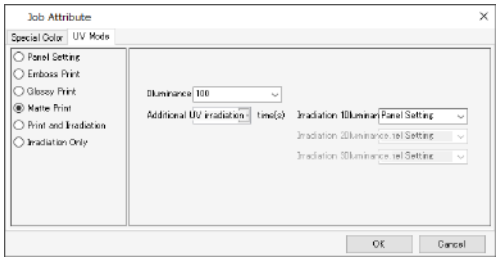
[Glossy Print]



Clear ink can be printed using irradiation settings to produce a smooth, glossy surface.

[Additional UV irradiation] : Performs additional irradiation to ensure complete ink curing after clear ink printing. The number of irradiation cycles can be set together with the irradiation illuminance.

[Matte Print]

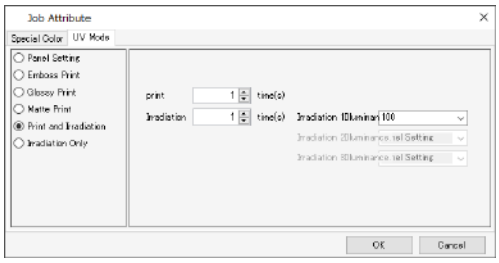


Ink can be printed using illuminance settings to produce a matte finish with a rough surface.

[Illuminance] : Sets the illuminance for printing.

[Additional UV irradiation] : Set when additional irradiation is required. Sets the number of irradiation cycles and irradiation illuminance.

[Print and Irradiation]

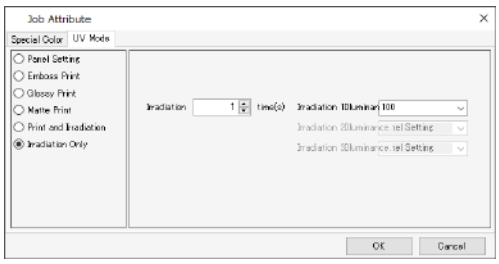


Prints clear ink without using irradiation.
Allows the number of overlay printing times to be set.

[Print] : Sets the number of overlay printing times.

[Irradiation] : Sets the number of irradiation cycles and irradiation illuminance after printing.

[Irradiation Only]



Performs irradiation only.
Use additional irradiation if the ink is insufficiently cured.

[Irradiation] : Sets the number of irradiation cycles and irradiation illuminance.

2.2.3 Arrange

Combines multiple jobs into a single job.

Arrange - Functions

With RasterLink7, printing multiple jobs all together is referred to as "arranged printing".

[Arrange] allows the following operations:

- Print multiple jobs all together.
- Arrange in the center of the media.
- Cancel arrangement.

● Conditions

Maximum number of arranged jobs

Up to 30 jobs can be arranged.

Editing conditions

Jobs with the following settings cannot be arranged:

- [Tiling]
- [Step & Repeat]

Also, jobs cannot be arranged with other groups of jobs that have already been arranged. In such cases, the arrangement must first be canceled before arranging.

Composite job arrangement

Multiple composite jobs can be arranged provided they satisfy the following conditions:

- For special color over-printing, the printing sequence for special colors and regular colors is the same for all of the arranged jobs.
- With flatbed printers, the number of printing position changes is the same for all of the arranged jobs.

Print & Cut job arrangement

Multiple Print & Cut jobs can be arranged. However, it is not possible to arrange Print & Cut jobs together with Color Only jobs or with Cut Only jobs.

Print-related settings

Jobs cannot be arranged if the following settings differ:

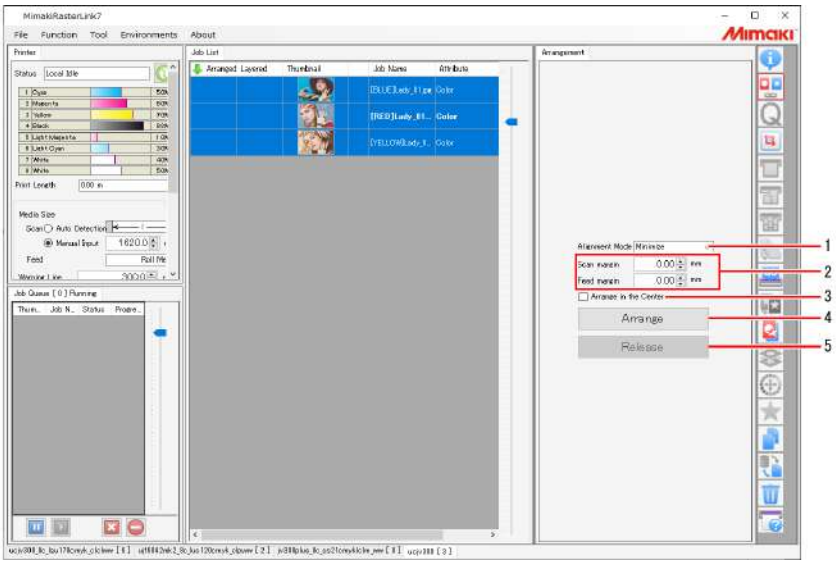
- [Resolution]
- [UV Mode] (with UV printers)

Jobs can be arranged if the following print-related settings differ:
However, all of the following settings will be the same as for the first job:

- [Pass]
- Overprint times
- [Halftone]
- [Follow by data]
- [Fast Print]
- [Cut after Print]
- [Heater OFF]
- Leading Margin
- [Heater Standby]
- [Distance Correction]
- [Device Adjustment]
- Fan setting
- [Pause Time per Scan]

Arrange - Screen Layout

● [Arrange] screen



1. [Alignment Mode]

Sets the alignment mode for the group of jobs when [Arrange] is clicked.
To position jobs individually, set the arrangement, then modify the layout using "General Print" ☞ "General Print"(P. 61).

[Sequential]	:	Positions jobs in the media print direction.
[Minimize]	:	Positions jobs to use the media most effectively. Jobs may be rotated automatically to optimize the layout.
[No rotation]	:	Positions jobs in the same way as for [Minimize], but does not rotate jobs.
[Minimize (Keep rotation)]	:	Positions jobs in the media print direction, retaining the rotation set on the Print Condition screen.

2. [Scan margin], [Feed margin]

Sets the margins between jobs. This is applied when [Arrange] is clicked.
The margins can also be changed after arranging using "General Print" ☞ "General Print"(P. 61).

3. [Arrange in the Center]

Selecting the check box positions the entire arranged job in the center of the media.
This is applied when [Arrange] is clicked.
The layout can also be changed after arranging using "General Print" ☞ "General Print"(P. 61).

4. [Arrange]

Clicking this arranges the multiple jobs selected from the [Job List] tab.
Depending on the settings, it may not be possible to arrange certain jobs ☞ "Arrange - Functions"(P. 35)

5. [Release]

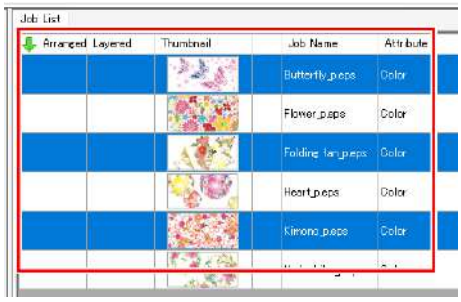
Clicking this cancels the arrangement for the jobs selected from the [Job List] tab.

Arrange - Operations

● Print multiple jobs all together.

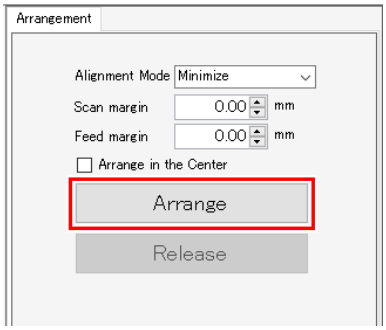
1 **Select multiple jobs.**

- For more information on how to select multiple jobs, refer to ☞ "Job Operations - Operations"(P. 18).

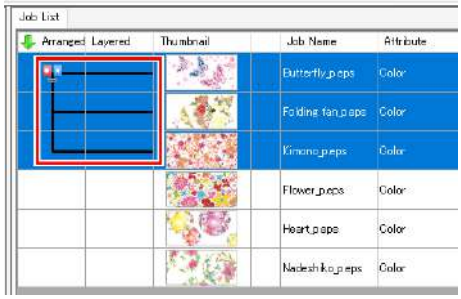


2 **Click [Arrange] in the [Function] menu or the function icon ( ).**

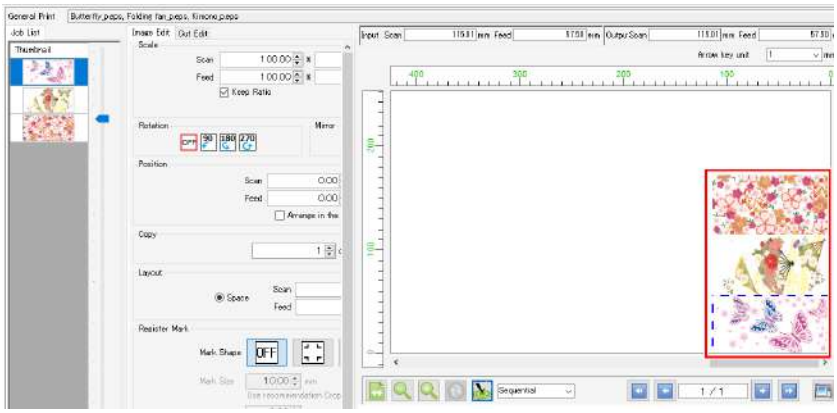
3 **Set Alignment Mode, Margin, and select or unselect the Arrange in the Center check box, then click [Arrange].**



- The multiple jobs selected in Step 1 are arranged.
- Lines are displayed for [Arrange] on the [Job List] tab.



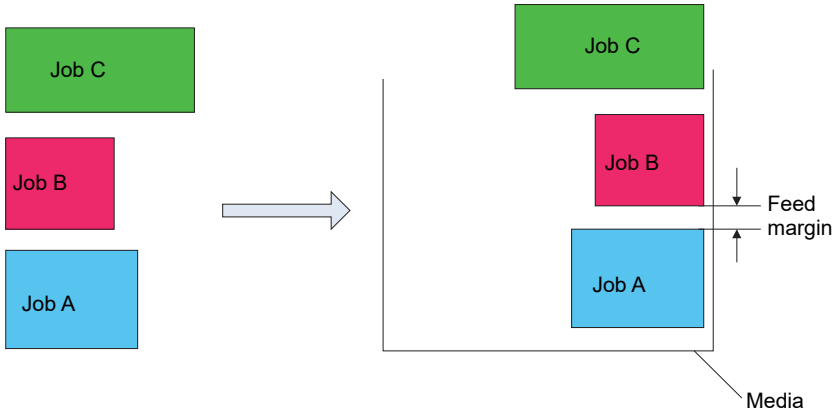
4 Clicking the [ ] icon displays a preview with the jobs arranged.



Clicking [Arrange] automatically aligns the multiple jobs selected using the specified alignment mode.
The following alignment modes are available:

- [Sequential]

  Jobs will be positioned sequentially in the media feed direction. Jobs may be rotated automatically when positioning to minimize length used.
  The feed margins can be set.



- While it is possible to print multiple jobs sequentially by simply printing jobs in succession, a preset margin will be inserted by the printer between each job.
  Sequential printing for arrangement allows the feed margin between each job to be set precisely.
- It is also possible to arrange jobs for which the number of copies has been set in [General Print]. The margin settings in [General Print] will be overwritten by the margin settings in [Arrange].

- [Minimize]

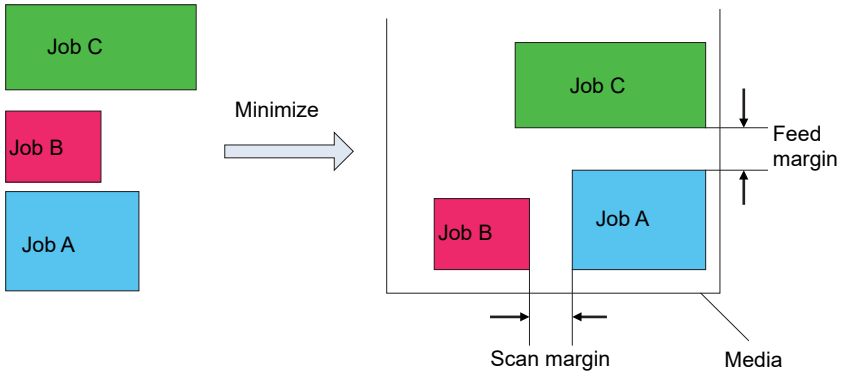
  Jobs will be positioned to minimize the printing area. Jobs may be rotated automatically when positioning.

- [No rotation]

  Jobs will be positioned to minimize the printing area. The sequence in which the jobs are positioned will be altered automatically. The jobs will not be rotated automatically. The [Rotation] setting will be disabled on the [General Print] screen.

- [Minimize (Keep rotation)]

  Jobs will be positioned to minimize the printing area while maintaining the [Rotation] settings set on the [Print Condition] screen.



● Arrange in the center of the media.

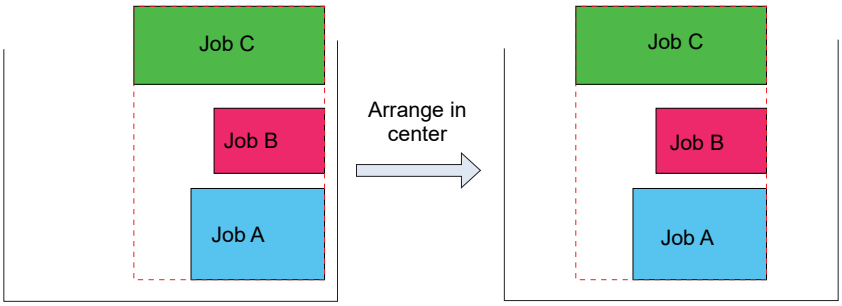
1 **Select the [Arrange in the Center] check box.**

2 **Click [Arrange].**

- The arranged jobs will be positioned at the horizontal center of the medium.

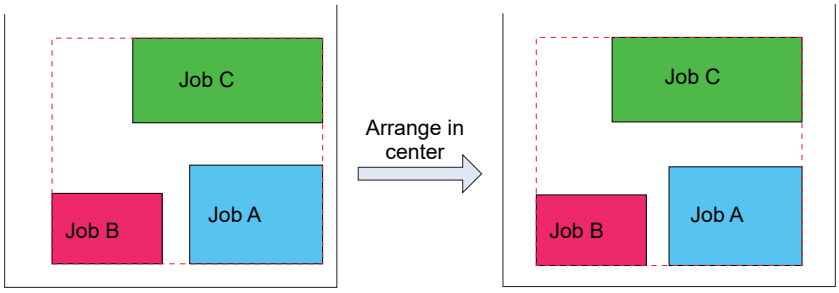
- When the alignment mode is [Sequential]:

  The rectangular border (dotted line in figure on left) surrounding all of the jobs is positioned at the horizontal center of the medium.



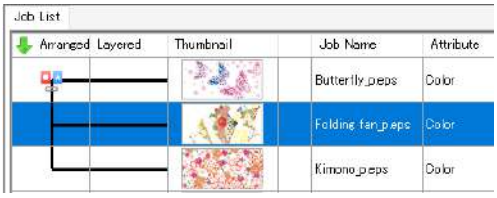
- When the alignment mode is [Minimize]:

  The arranged jobs will be positioned so that the center point coincides with the horizontal center of the medium.



● Cancel arrangement.

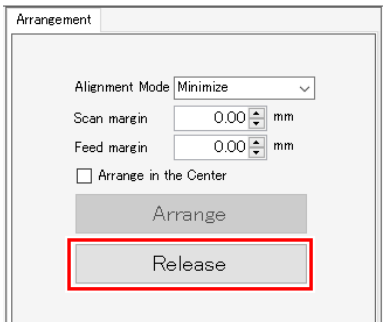
1 **Select the job(s) for which arrangement is to be canceled on the [Job List] screen. To cancel the arrangement for all jobs, select all the jobs.**

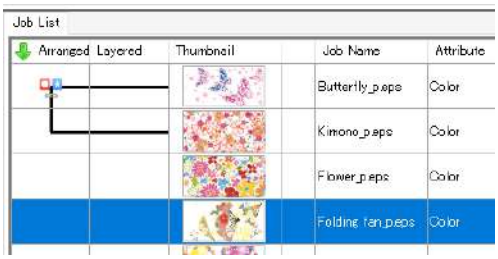


2 **Click [Arrange] in the [Function] menu or the function icon ( ).**

3 **Click [Release].**

- The arrangement is canceled for the selected jobs.





2.2.4 Print Condition

Sets the print conditions.

Print Condition - Functions

[Print Condition] allows the following operations.

- Select a device profile
- Select the output settings
- Print the color pattern.
- Select the head unit to be used*1
- Print white at higher density*1
- Set the primer and white density*1
- Set calibration
- Perform color matching
- Adjust ink levels
- Fine adjust colors
- Print small characters clearly*1

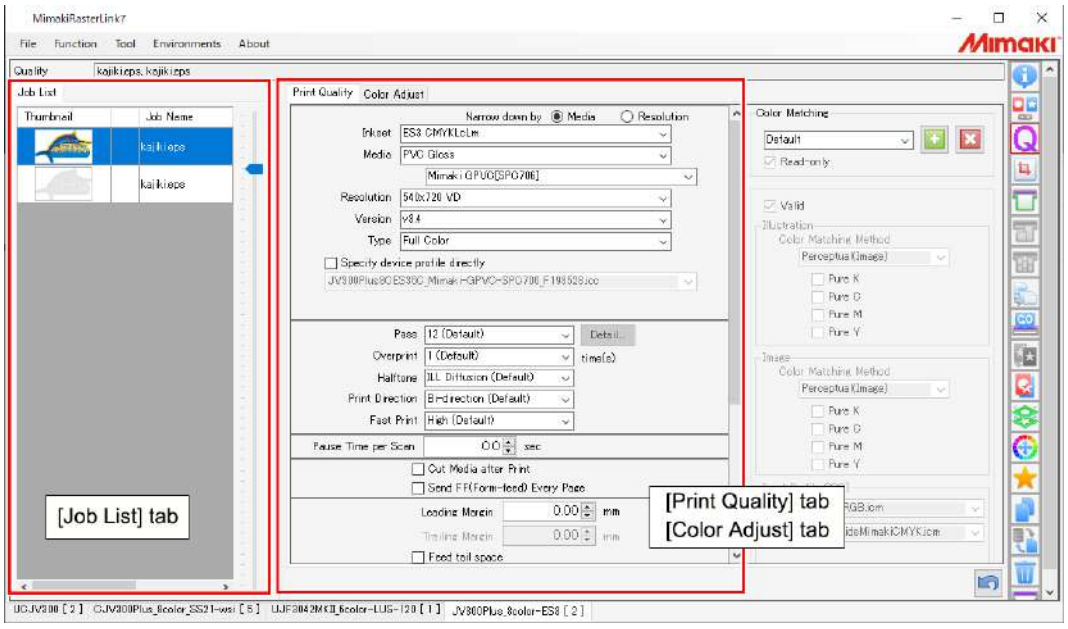
*1. Not available with all models.

● Conditions

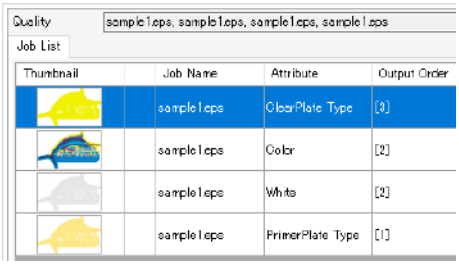
The items that are displayed and can be set in [Print Condition] will vary depending on the individual model, inkset, and job. For more information, refer to ☞ "Print Condition - Operations"(P. 46).

Print Condition - Screen Layout

● [Print Condition] screen



● [Job List] tab



Displays the list of arranged and composed jobs.

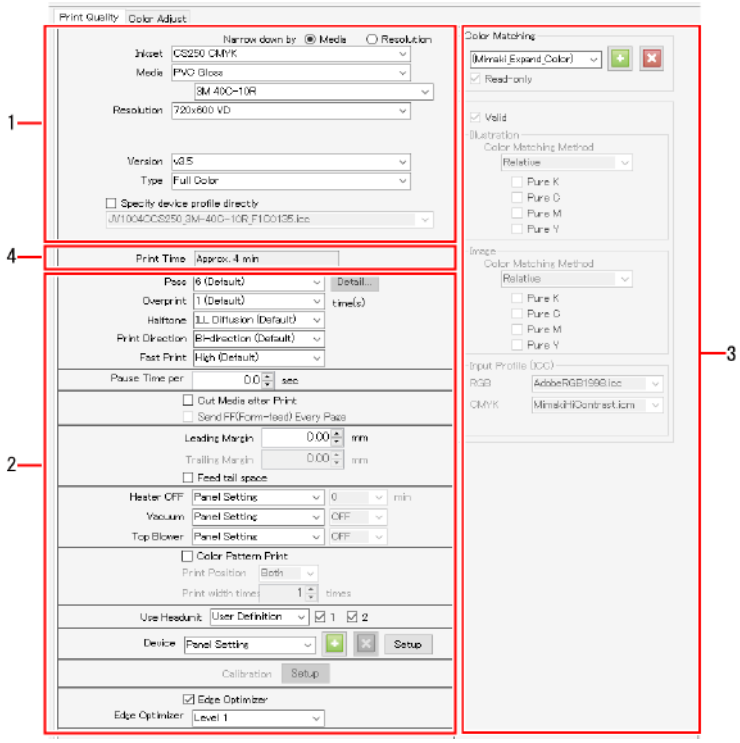
Set the various items in the [Print Quality] and [Color Adjustment] tabs.

Important!

- Jobs that have the same number indicated for [Output Order] on the [Job List] tab will be printed at the same time. (With flatbed printers)
  The following settings on the [Print Quality] tab should be configured identically for jobs that are to be printed simultaneously.
  - [Resolution]
  - [Pass]
  - [Overprint]
  - [Fast Print]
- Depending on the printer model, other items in addition to those above must also be set identically.

- Setting the various items with multiple jobs selected applies the same settings to all of the selected jobs.
- Jobs with different numbers indicated in [Output Order] can be selected individually and set differently. (With flatbed printers)

● [Print Quality] tab



1. Device Profile selection

The device profile is a file containing data for adjusting print conditions and ink levels to ensure optimum quality. One device profile exists for each printer, inkset, media, and resolution.

- Device profiles can be obtained as follows.
  - Download from the official Mimaki website
  - Install using a profile update

  For more information, refer to the separate "RasterLink7 Installation Guide".
- Device profiles can be created using "MimakiProfileMaster3" (sold separately).

Important!

- V1 and V2 device profiles (with the ".cot" extension) which were supported by RasterLinkPro5 or earlier cannot be used with RasterLink7.

2. Output Resolution

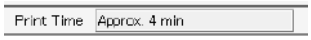
Displays the values set for the device profile settings.

3. [Color Matching]

Matches the output colors to the input colors.

4. Estimated print time

- The estimated time when printing under the displayed conditions is displayed.



- Print time can be displayed with the following models.

JV300, JV150, CJV300, CJV150, UCJV300, JV300 Plus, CJV300 Plus, JV100, TS100

Important!

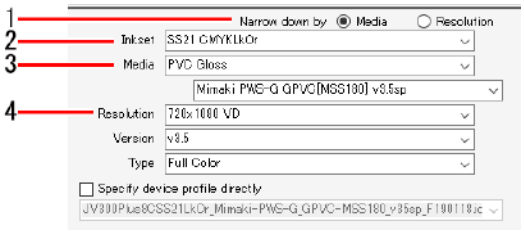
- Print time is not displayed in the following cases.
  - For print & cut jobs
  - When pull-back printing is set
  - When not connected to a printer with the power turned on
  - For composite jobs with multiple feed
- The estimated print time displayed applies to the conditions displayed together with logical seek being disabled.
  The print time displayed will differ significantly from the actual print time taken if logical seek is enabled.
- The following time is not included.
  - Ripping time
  - Flushing and cleaning time during printing

● [Color Adjustment] tab

Adjust the ink levels after color matching.

Print Condition - Operations

● Select a device profile



1 Select either [Media] or [Resolution] for [Narrow down by] in the device profile on the [Print Quality] tab.

- Selecting [Media] allows device profiles to be filtered in the following order.
  Inkset ⇒ Media type ⇒ Media name ⇒ Resolution
- Selecting [Resolution] allows device profiles to be filtered in the following order.
  Inkset ⇒ Resolution ⇒ Media type ⇒ Media name

2 Select the ink set used from the [Inkset] list.

3 Select the media type in the upper box and the media name in the lower box for [Media].

- The media type is classified based on the information registered in the device profile. However, [Others] is displayed for the media type in device profiles that do not include this information.
- Selecting [All] for media type allows all of the media to be selected by media name.

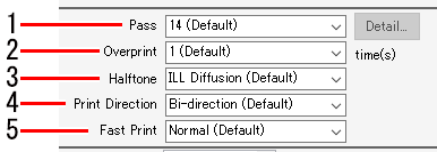
4 Select the output resolution from the [Resolution] list.

- Higher resolution gives higher quality but reduces the printing speed. Lower resolution increases the printing speed, but results in lower quality. Select to suit your requirements.
- [Version] displays the version of the selected device profile.
- [Type] displays the type of the selected device profile.

- The print quality and speed will vary depending on ☞ "Select the output settings"(P. 47).
- Selecting the [Specify device profile directly] check box allows the device profile to be selected using the file name without filtering.

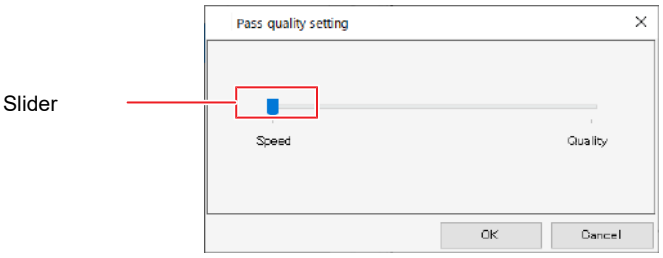
● Select the output settings

- In this manual, the maximum feed width that can be printed per scan is called "one band".
- The values set for the device profile settings are indicated by [(Default)].



1 Select the number of passes (number of divisions per band) from the [Pass] list in [Output Resolution] on the [Print Quality] tab.

- A larger number of passes increases the quality but reduces the printing speed.
- The following [Pass quality setting] dialog appears when [Details] is clicked.
  Moving the slider to the right increases the quality but reduces the printing speed.
  Clicking [OK] applies the settings.



2 Set the number of scans for each printed pass in [Overprint].

- Increasing the number of scans increases the print density.

3 Select the gradation printing method from the [Halftone] list.

4 Select [Uni-direction] or [Bi-direction] from the [Print Direction] list.

- [Uni-direction]: Prints only when the print head moves from right to left.
  This increases the quality compared to [Bi-direction] but reduces the printing speed.
- [Bi-direction]: Prints when the print head moves both left and right.
  This reduces the quality compared to [Uni-direction] but increases the printing speed.

Important! • The [Bi-direction] option may not be available with certain models.

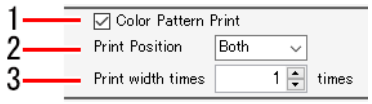
5 Select [ON] or [OFF] from the [Fast Print] list.

- Selecting [ON] reduces the quality but increases the printing speed.

Important! • The [Fast Print] option may not be available with certain models depending on the resolution.

● Print a color pattern (with a roll-to-roll printer)

Color patterns are printed for checking nozzle clogging.



1 **Select the [Color Pattern Print] check box.**

2 **Select the position for printing the color pattern from the [Print Position] list.**

- [Left Side]: Prints a color pattern on the left edge of the media.
- [Right Side]: Prints a color pattern from the print origin.
- [Both]: Prints color patterns on both the print origin and the right and left edges of the media.

3 **Set the print width for the color pattern to be printed on the left side using [Print width times].**

- Set in a range of 1 to 5 times.
- The color pattern print width corresponding to one nozzle is 1.8 mm.

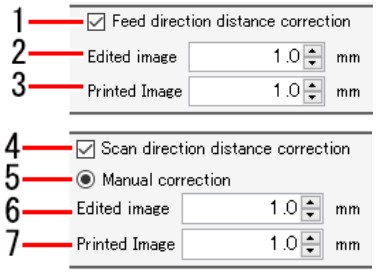
Important!

- The amount of ink consumption displayed after RIP and print does not include the ink amount consumed to print a Color pattern.

● Select the head unit to be used for printing (JV100, UJV100, TS100, JV300, CJV300, JV300 Plus, CJV300 Plus)

1 **Select the head unit to be used for printing in the [Use Headunit] list.**

● Correct the feed and scan direction distance (flatbed printers)



1 **Select the [Feed direction distance correction] check box.**

2 **Enter the feed direction distance for the data to be printed in [Edited image size].**

3 **Enter the feed direction distance (actual distance) prior to distance correction in [Printed Image Size].**

- The feed direction print size, movement, and copy margins are corrected.

4 **Select the [Scan direction distance correction] check box.**

5 **Select [Manual correction].**

6 **Enter the scan direction distance for the data to be printed in [Edited image size].**

7 **Enter the scan direction distance (actual distance) prior to distance correction in [Printed Image Size].**

- The scan direction print size, movement, and copy margins are corrected.

● Print white ink at higher density (UJF-7151, UFJ-7151plusII)

Alters the white ink level and ink limit to increase the density of the white ink printed.

- This operation is useful when the actual white ink density printed is insufficient even when the ink level and ink limit has been set in [Color Adjustment].

1 **Select the [Printing of the White ink at higher density] check box.**

● Set the primer and white density (UJF-7151, UJF-3042MkII, UJF-3042MkII EX, UJF-6042MkII, UJF-7151plusII, UJF-3042MkII e, UJF-3042MkII EX e, UJF-6042MkII e)

Disabling cancels primer and white ink density adjustment.

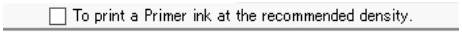
The ink that can be set will vary depending on the individual model.

- UJF-7151, UJF-7151plusII: Primer
- UJF-3042MkII, UJF-3042MkII EX, UJF-6042MkII, UJF-3042MkII e, UJF-3042MkII EX e, UJF-6042MkII e: Primer, white

Important!

- It is recommended that this function be enabled when printing.
- Enabling or disabling does not alter the density if the recommended density is 100%.

1 **Unselect the [To print a Primer ink at the recommended density.] check box.**



● Set calibration

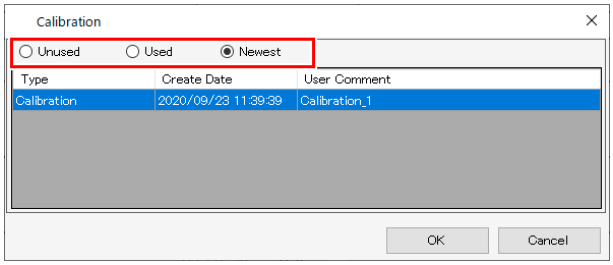
Important! Calibration settings will be enabled when a device profile with calibration data set is selected. Calibration data can be set using either of the following two methods:

- Using RasterLink7 [Calibration] function
- Using Mimaki "MimakiProfileMaster3" profile creation software (available separately)

1 **Click [Setup] in [Calibration] within the device profile.**

- A dialog appears.

2 Select the following items.



- [Unused] : Color matching is performed without using calibration or equalization data.
- [Used] : Uses calibration or equalization data selected from the list underneath.
- [Newest] : Uses calibration or equalization data with the most recent creation date. The newest data is always selected, so there is no need to reselect the data each time, even when information is added frequently.

● Perform color matching

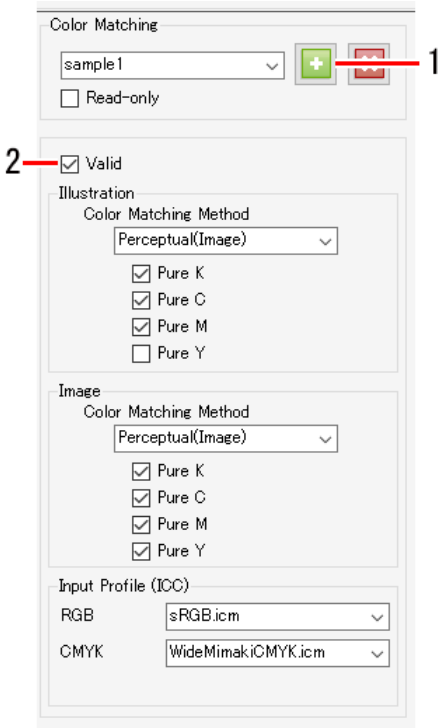
In RasterLink7, adjusting the colors actually printed to match the data colors is referred to as color matching.

Colors can be matched based on the ICC profile and unique data.

- In RasterLink7, vector data is referred to as "illustrations", and raster data is referred to as "images".

Important!

- In RasterLink7, color matching can be set differently for vector data and raster data. However, if effects such as blurring and transparency are added to vector data in Adobe Illustrator, some of the objects will be converted to raster data. Applying color matching to objects like this will result in color differences within the same object. In order to prevent this, the vector data and raster data color matching settings should be set identically for objects that use effects such as blurring and transparency.



1 **Enter a suitable name in [Color Matching], then click the [ ] icon.**

- New settings are created.

2 **Select the [Valid] check box to apply the various settings.**

- The settings are divided into [Illustration] and [Image].
- The [Illustration] settings are applied to vector data.
- The [Image] settings are applied to raster data.

[Color Matching Method]

[Perceptual(Image)]	:	Suited for photographs. Color matching is performed to ensure that the overall brightness of the job is close to that of the input images.
[Saturation(Graphics)]	:	Suited for illustration images. Color matching is performed to increase the overall density of the job.
[Relative]	:	Color matching is performed to ensure that colors within the same color gamuts for the input profile and the device profile are as close as possible.

Important!

- With [Relative], colors outside the device profile color gamut will be assimilated into the colors of color gamuts that can be represented by the device profile even when the colors can be represented by the input profile.
  This results in blowing-out of high-saturation parts.

[Absolute]	:	The color matching method is the same as for [Relative]. Colors including the media color are corrected to ensure they are close to the colors of the input profile. This may sometimes result in color being printed even in areas that are white in the original image data.
[Gray Balance]	:	These are useful when the original image data uses CMYK color mode. CMYK adjustment is performed and color matching calculations using ICC profiles are not performed. This should be set when color matching processing is performed in the application.
[Relative(BPC)]	:	The color matching method is the same as for [Relative]. Performs black point compensation to improve shadow gradations.

[Pure K], [Pure C], [Pure M], [Pure Y]

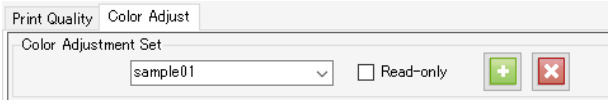
- These are useful when the original image data uses CMYK color mode. Color matching using an ICC profile may result in color mixing when printing, even when the colors in the original image data have been set as C, M, Y, or K mono colors. Selecting each check box allows printing without color mixing occurring if C, M, Y, or K mono colors have been set.

[Input Profile (ICC)]

- Sets the input profile. Profile Manager can be used to install a target profile if available.
- If a profile is embedded in the original image data, the [Embedded Profile] check box is displayed. Selecting this check box uses the embedded profile preferentially as the input profile.

● Adjust ink levels

Adjust the ink levels after color matching processing on the [Color Adjustment] tab.



1 Enter a suitable name in [Color Adjustment Set] on the [Color Adjustment] tab, then click the [ ] icon.

Important!

- [Color Adjustment] is dependent on the device profile.
  A registered [Color Adjustment Set] will not be displayed if a different device profile is selected.
  Even if the [Color Adjustment Set] name is the same, it will be treated as a different adjustment file if the device profiles differ. Take care when naming files.
- [Color Adjustment] cannot be edited if [Standard] is selected.

2 Set the density.

- The ink levels can be adjusted for special inks such as white and silver in addition to CMYK inks.

[Whole]

- This alters the ink limits set in the device profile by the same ratio for each ink. This is useful if the overall ink is too dense or too thin. The ink limits are altered by the factors set here. Settings between +1% and 50% increase the ink, but the ultimate ink limit cannot exceed 100%.

  Example: When the cyan ink limit is set to 70% in the device profile

[Whole] value	Cyan ink limit
-50%	35%: (70% × (100 + -50)% = 35%)
-10%	63%: (70% × (100 + -10)% = 63%)
+40%	98%: (70% × (100 + 40)% = 98%)
+50%	100%: (70% × (100 + 50)% = 105%) • While the calculation results in a value of 105%, the ultimate ink limit cannot exceed 100%, so this becomes 100%.

[Illustration]

- Sets the ink densities used with vector data.
- The following setting methods are available.

[Contrast] Alters the contrast in a range of -50% to +50%.	-50% to -1% Direction in which colors do not vary. +1% to +50% Direction in which colors vary significantly. It increases vibrancy, but gradations may tend to be blown out in high-density parts.

[Black] Alters the black ink and cyan/magenta/yellow ink levels in a range of -50% to +50%. Use K-CMY adjustment if you require more detailed settings.	-50% to -1% Reduces the black ink limit by the ratio set. 0% Enables detailed setting K-CMY adjustment. (The K-CMY adjustment setting is disabled except for 0%.) +1% to +50% Increases the black ink level and reduces the cyan/magenta/yellow ink levels.
[Cyan] [Magenta] [Yellow] Alters the cyan/magenta/yellow ink levels in a range of -50% to +50%. This is useful when adjusting hue. The ink levels are changed for middle parts, but the ink limits cannot be changed.	[Highlight] Alters the ink level primarily for brighter parts. [Middle] Alters the ink level primarily for parts around 50%. [Shadow] Alters the ink level primarily for denser parts.

[Image]

- Sets the ink densities used with raster data.
- The setting methods are the same as for [Illustration].

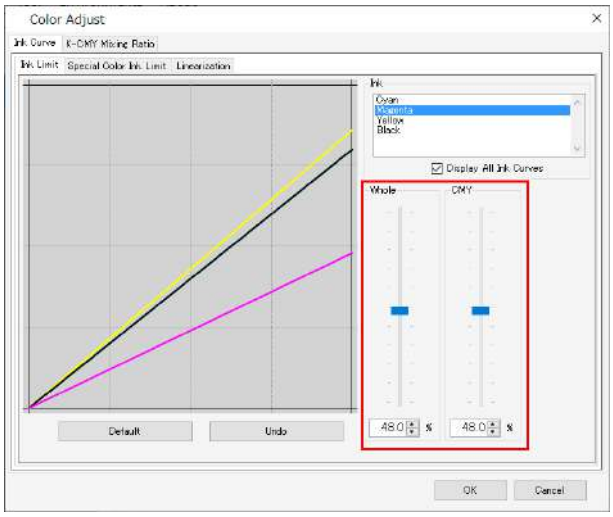
[Special Color]

- Sets the ink densities used with special colors.
  Alters the special color ink level in a range of -50% to +50%. The ink limit cannot be changed. Special color density adjustment is available when using v3.3 profiles or later.

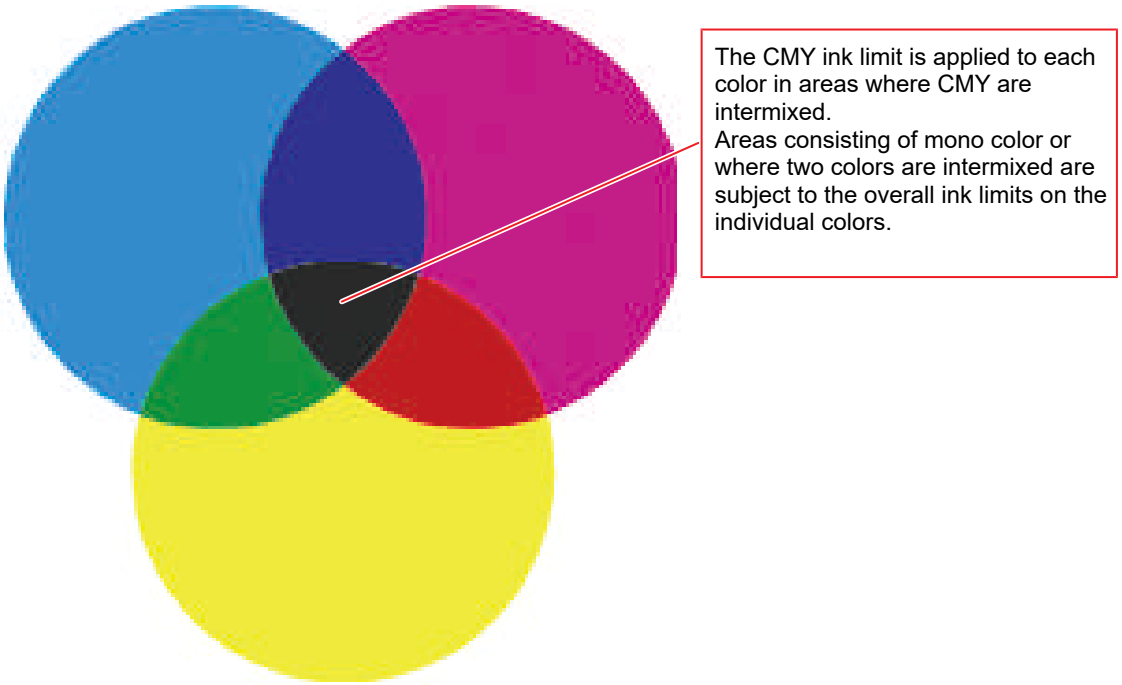
● Fine adjust colors

Clicking [Setup] allows detailed settings for ink limits, linearization, special color ink limits, and adjusting K-CMY mixing ratio.

- [Ink Limit]

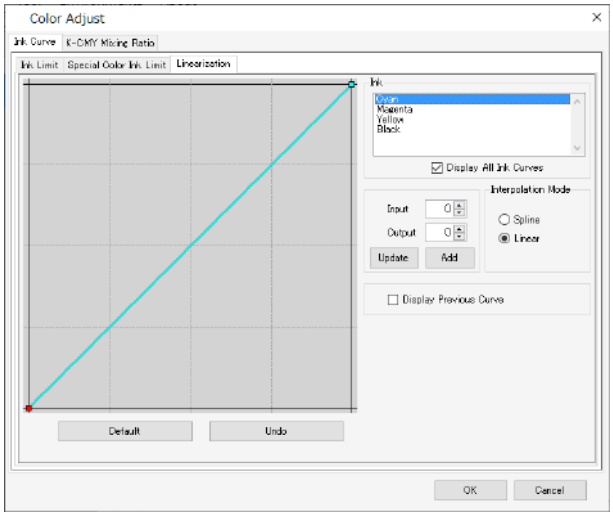


Adjust the ink limit sliders for each of the process color inks (cyan, magenta, yellow, black. etc.). [Whole] sets the ink limits for each color. [CMY] is the ink limit used when three or more inks are mixed together. The overall ink limit forms the CMY color ink limit.
This setting can be used to limit the ink if ink bleeds in areas where three or more colors intermix.



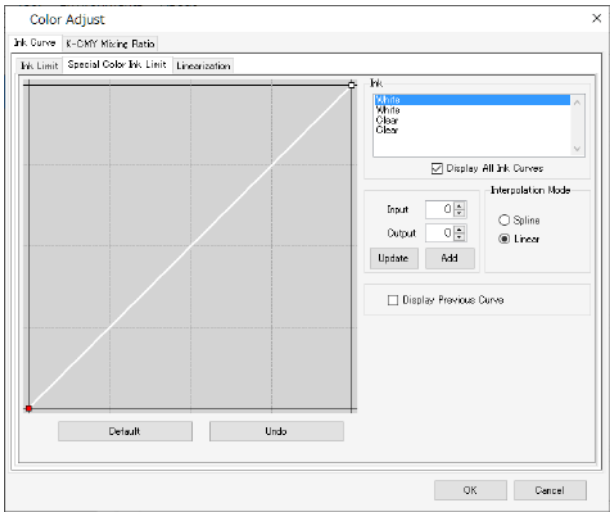
C0,M0,Y0 Using the respective overall cyan, magenta, and yellow limits
C1,M1,Y1 Using the respective 3-dimensional cyan, magenta, and yellow limits

- [Linearization]



Edit the middle tone density curves for each of the process color inks (cyan, magenta, yellow, black. etc.). This adjusts the tones to ensure smooth gradations are printed for each ink.
The maximum density (ink limit) can also be altered here, but this should not be changed, as this makes ink limit adjustment more difficult.

- [Special Color Ink Limit]

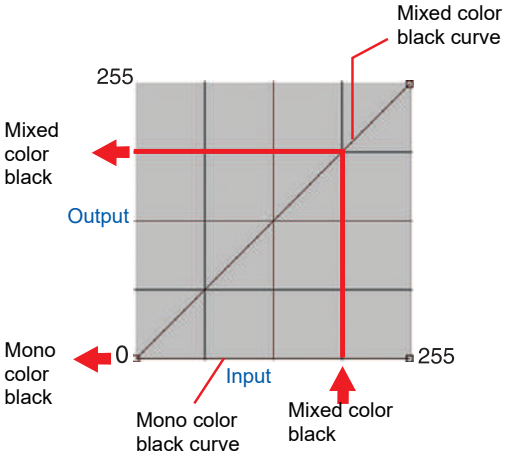


Adjust the densities for special color inks such as white, clear, and silver.
Initially, the densities set in [Input] are used, but the curves should be adjusted on this screen if there is insufficient variation in the middle tone densities, such as in gradations.

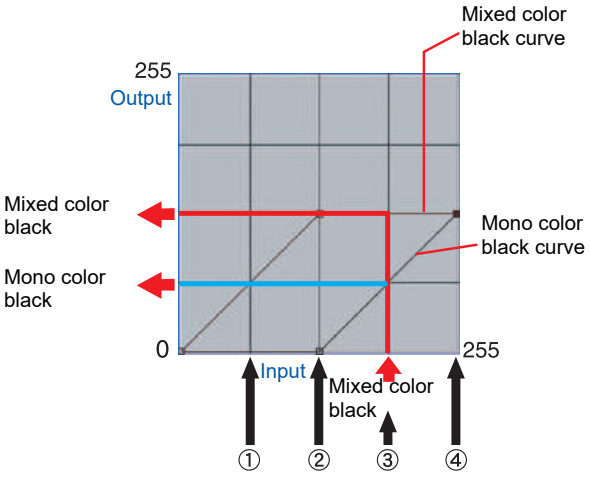
- [Enable K-CMY Mixing Ratio]
  Alter the curves for the black, cyan, magenta, and yellow usage ratios. Changes can be made for illustrations and images respectively. When the input data is RGB mode, and when excessive ink tends to be used in shadow areas, this adjustment can reduce the amounts of cyan, magenta, and yellow used and increase the black, without changing the shadow tone appearance significantly.

Important!
- This setting cannot be used unless black is set to 0% for [Density] on the [Color Adjustment] tab.

Without adjustment



With adjustment



Adjusted curve values

	Input color				Mixed color black		Mono color black		Output color				Explanation
	A			B									
	C	M	Y	K	Input	Output	Input	Output	C	M	Y	K	
①	64	85	64	5	64	64	64	0	64	85	64	5	Unchanged
②	128	150	160	5	128	128	128	0	128	150	160	5	Unchanged
③	200	192	200	5	192	128	192	64	136	128	136	69	CMY partially changed to K
④	255	255	255	5	255	128	255	128	128	128	128	133	CMY partially changed to K

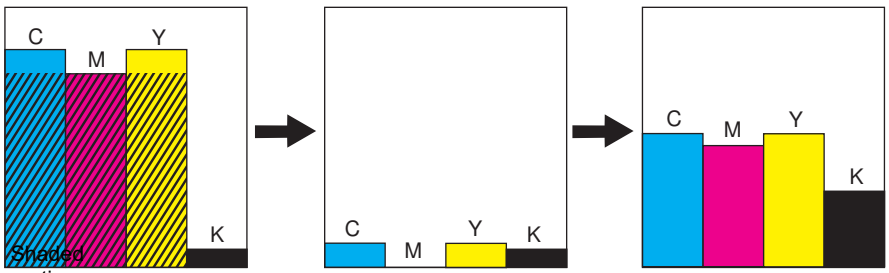
③ Calculations for □

C 200-192+128=136

M 192-192+128=128

Y 200-192+128=136

K 5+64=69



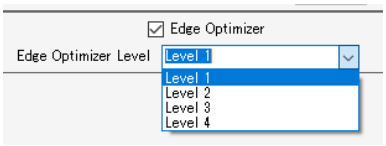
● Print small characters clearly (JV100, UJF-7151plusII)

1 **Select a job in the [Job List].**

2 **Click [Print Condition] in the [Function] menu or the [Print Condition] function icon ( ).**

3 **Select the [Edge Optimizer] check box in the [Print Quality] tab, then select [Edge Optimizer Level] (1-4).**

- A higher level gives sharper printing.



- [Edge Optimizer] is also useful when printing small characters.
- This is also applied to images and illustrations.

Important! [Edge Optimizer] is available for color ink with the exception of special color inks (white, clear).

[Edge Optimizer] is not available for jobs with the following settings.

- [Step & Repeat]
- [Tiling]
- Jobs with register marks in FineCut

● Set the media thickness (UJF-3042MkII e, UJF-3042MkII EX e, UJF-6042MkII e, UJF-7151plusII)

1 **Select a job in the [Job List].**

2 **Click [Print Condition] in the [Function] menu or the [Print Condition] function icon ( ).**

3 **Select [Panel Setting] or [User Definition] for [Media Thickness] in the [Print Quality] tab.**

- Selecting [User Definition] allows the media thickness to be specified.

2.2.5 Crop

Crops part of a job.

Crop - Functions

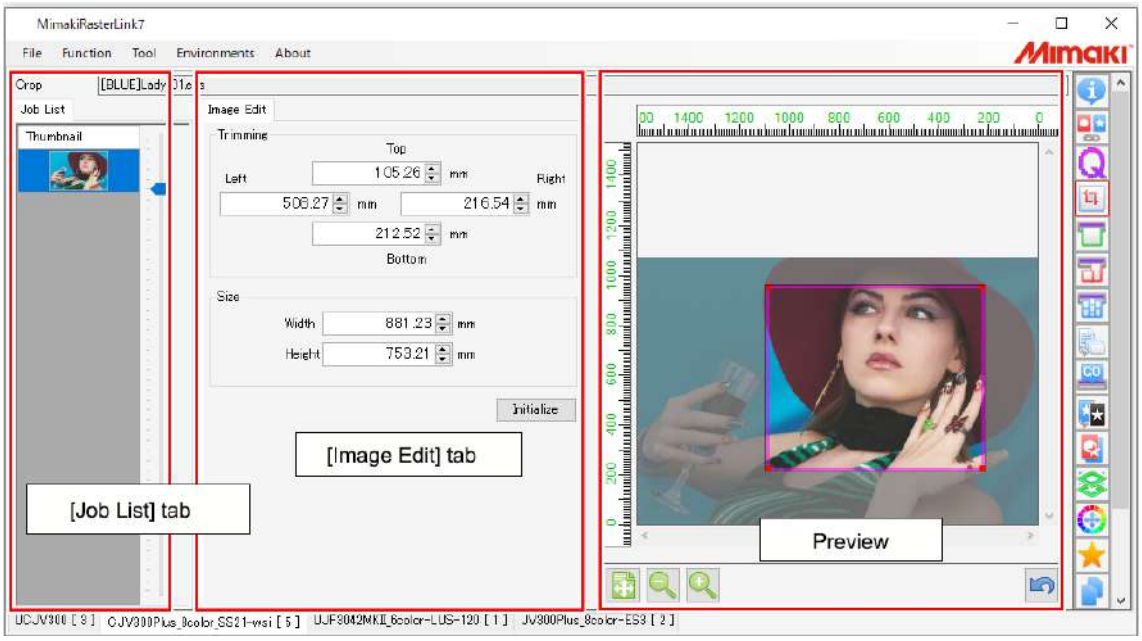
[Crop] allows the following operations.

- Crop a job

Important! • [Crop] is not available for jobs with [Variable Edit] enabled.

Crop - Screen Layout

● [Crop] screen



● [Job List] tab

If multiple jobs are selected in the [Properties] function, the [Job List] tab displays the multiple jobs selected. If [Crop] is used, select one job from the [Job List] tab.

Important! • Multiple jobs cannot be handled together with [Crop].

● [Image Edit] tab

1. [Trimming]

Sets the range for cropping the job.

2. [Size]

Sets the size for cropping a job.

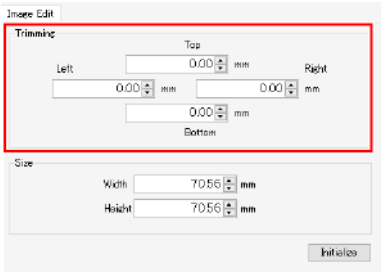
Crop - Operations

● Crop a job

- Enlarging or reducing jobs for example using the [General Print] function will enlarge or reduce the range cropped using [Crop].

Set the cropping lines

1 **Set the cropping line positions in [Trimming] on the [Image Edit] tab.**



[Top] : Distance from the top edge of the job to the cropping line

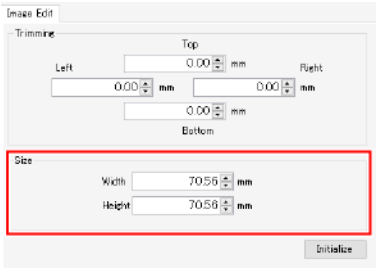
[Left] : Distance from the left edge of the job to the cropping line

[Right] : Distance from the right edge of the job to the cropping line

[Bottom] : Distance from the bottom edge of the job to the cropping line

Set the cropping size

1 **Set [Width] and [Height] in [Size] on the [Image Edit] tab.**

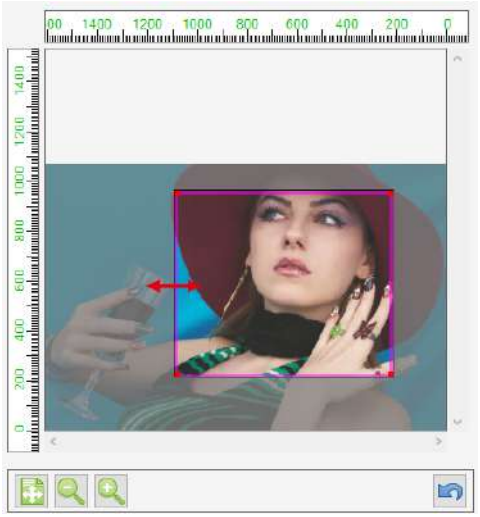


- The job will be cropped to the specified size with respect to the origin position.

- [Trimming] and [Size] should be set based on the size of the original image.

Set cropping lines using a mouse

1 **Drag and drop the pink lines on the preview.**



Initialize the settings

1 **Click the [Initialize] icon on the [Image Edit] tab.**

Jobs spanning multiple pages

- Thumbnails and previews display the images on the first page of multi-page jobs.
- [Trimming] and [Size] settings are applied to all pages of multi-page jobs. Settings cannot be changed for individual pages.

2.2.6 General Print

Sets basic parameters such as job size, position, and number of copies before printing.

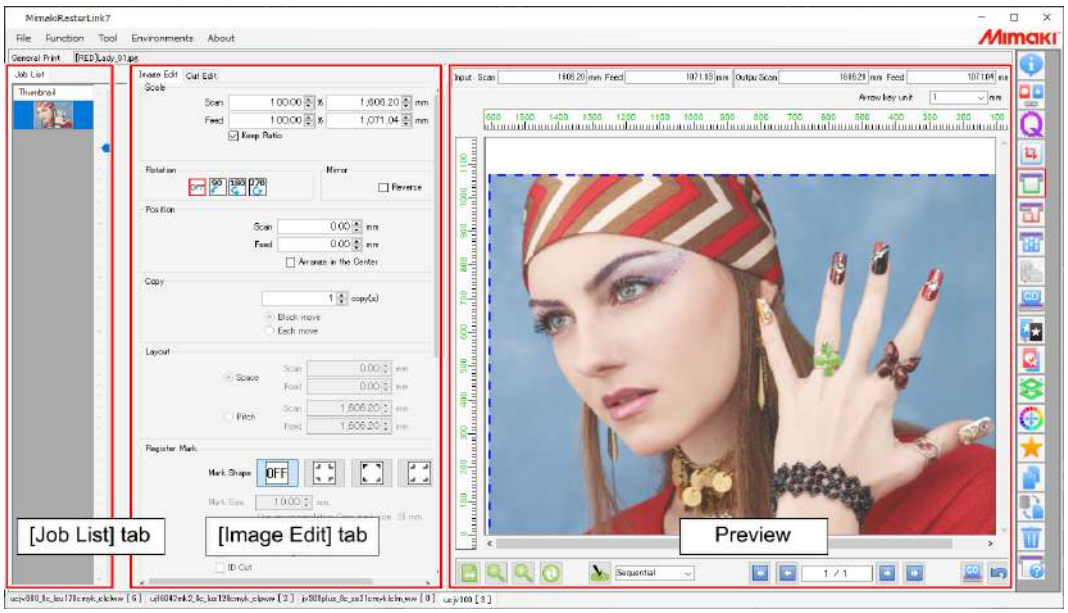
General Print - Functions

[General Print] allows the following operations.

- Enlarge and reduce jobs
- Rotate jobs
- Reverse jobs
- Deskew
- Move jobs
- Copy a job
- Set margin between jobs
- Set the printing pages
- Set printed area
- Set register marks
- Print cut lines
- Set Fotoba cut marks
- Set information labels
- Print

General Print - Screen Layout

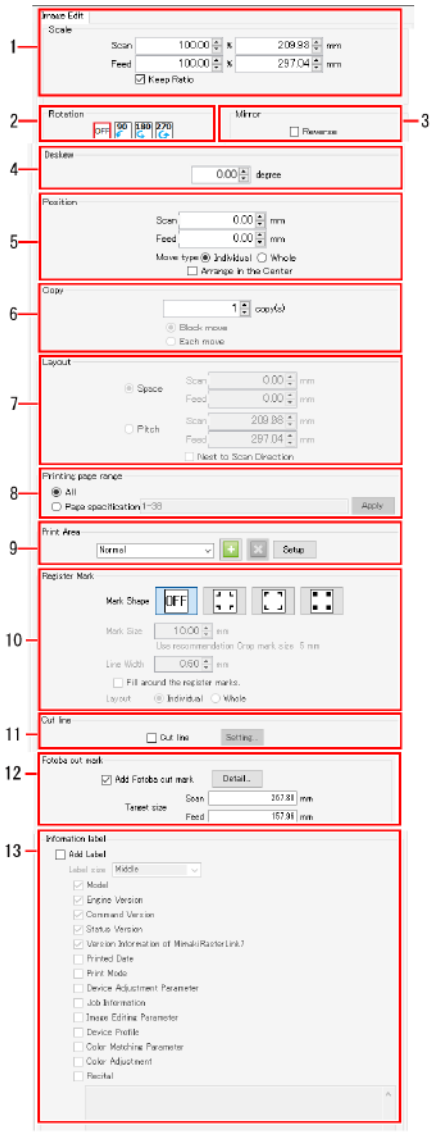
● [General Print] screen



● [Job List] tab

Displays the arranged job.
The various settings for the selected job can be edited on the [Image Edit] tab.

● [Image Edit] tab



1. [Scale]

Enlarges and reduces the job.

2. [Rotation]

Rotates the job.

3. [Mirror]

Reverses the job.

4. [Deskew] (with flatbed printers)

Tilts the job in the range of -45° to +45°.

5. [Position]

Sets the origin position for each job.
Selecting the [Lock the trimming position] check box locks the trimming origin position in the display.

6. [Copy]

Copies and positions the job.

7. [Placement]

Specifies the layout of arranged jobs and copied jobs.

8. [Printing page range] (with multi-page jobs)

Sets the page(s) to be printed in the case of multi-page jobs(*).

9. [Print Area] (with flatbed printers)

Sets the valid print area to match the size of the media to be printed.

10. [Register Mark]

Sets register marks.

11. [Cut line]

Selecting the check box prints cut lines around the job.

12. [Fotoba cut mark]

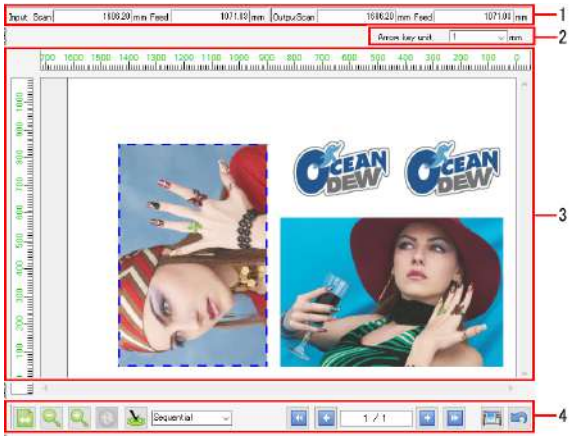
Selecting the check box prints cut marks used with the Fotoba Series (high-speed finishing cutter machine).

13. [Printed Information Label]

Selects information to be printed.

(*) Jobs that contain multiple images within a single file, such as PDF and TIFF multi-page files, are referred to as multi-page jobs.

● Preview



1. [Input], [Output]

   [Input] displays the original data size of the selected job.
   [Output] displays the size to be output.

2. [Cursor Key Unit]

   The selected job can be moved by clicking in the preview and using the cursor keys on the keyboard. This setting allows you to specify the amount by which the job moves each time a cursor key is pressed.

3. Layout Preview

   Displays the layout in which the job(s) will be printed.
   The valid print area (within the media) is shown in the layout preview as white, and areas outside this are shown as gray.
   The following operations can be performed on jobs selected individually in the layout preview using the mouse. Multiple jobs cannot be selected simultaneously.

   - The settings for selected job can be edited using the various items in [Image Edit].
   - The selected job can be moved by dragging.
   - The selected job can be moved using the cursor keys.

   With a flatbed printer

   - When multiple jobs have been arranged or copied, they may not fit on a single panel, making it necessary to print several times.

     In such cases, click the [] icon to create a new panel on which the jobs can be placed.

   - The display changes to red if there are multiple panels. The [] icons can be clicked to select the individual panel to be previewed.

4. Icons

Display using media width

Displays the layout preview width using the media width.

Zoom out

Reduces the layout preview display size.

Zoom in

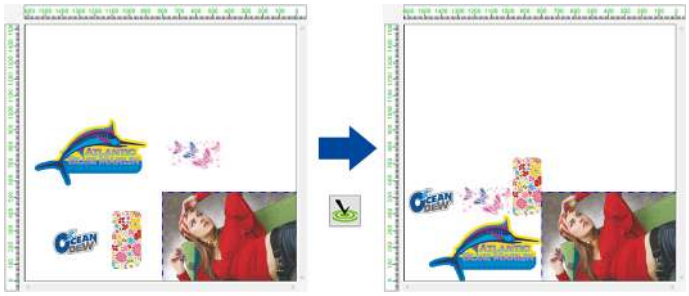
Increases the layout preview display size.

Refresh media width

Displayed when using a roll-to-roll printer.
Acquires the media width from the printer and refreshes the valid print area displayed in the layout preview.

Optimize

Selecting an alignment mode ☞ P. 36, then clicking the [ ] icon allows jobs to be positioned using the selected alignment mode. The margin settings set in Image Edit are used.
If multiple jobs cannot be fitted on a single panel when using a flatbed printer, a new panel is created automatically on which the remaining jobs are placed.



Execute

Rips and prints.

Undo

Restores the settings for when the [General Print] screen was first opened.

General Print - Operations

● Enlarge and reduce jobs

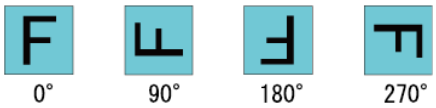
1 **Set [Width] and [Feed] for the job to be printed for [Scale] on the [Image Edit] tab.**

- [Width] and [Feed] can be set as ratios (%) or size.
- Selecting the [Keep aspect ratio] check box enables jobs to be enlarged or reduced while retaining the aspect ratio of the original image.

● Rotate jobs

1 **Select [Rotation] on the [Image Edit] tab.**

- This allows the angle of counter-clockwise rotation to be set.
- Select one of the following angles.



● Reverse jobs

1 **Select the [Reverse] check box in [Mirror] on the [Image Edit] tab.**

If a combination of mirroring and rotation is used, the job will be reversed before being rotated.

- With 0° rotation

- With 90° rotation

● Deskew (with flatbed printers)

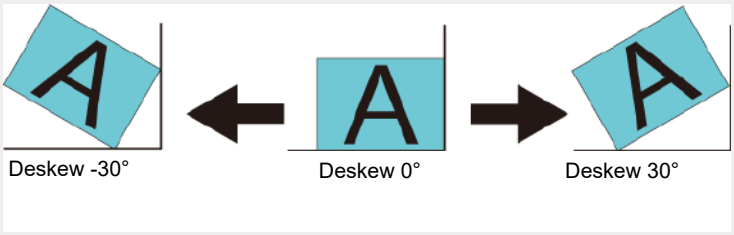
This is used when printing material positioned at an angle to the table.

Important! • It cannot be used in combination with [Variable Edit].

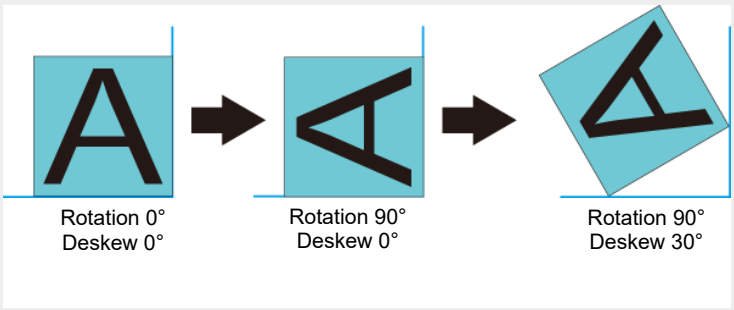
1 [Deskew] on the [Image Edit] tab is used to set the job angle.

- This can be set in the range of -45° to +45°.
- This can be set in conjunction with [Rotation].

- If [Deskew] is applied, the right-hand and lower positions of the job after skewing will be the same as before skewing.



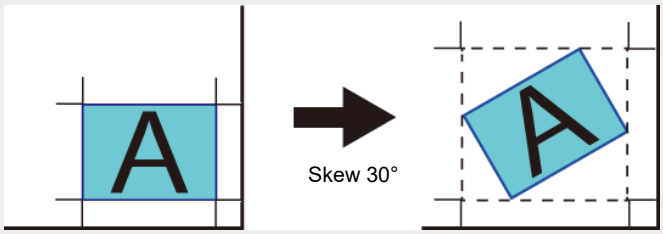
- The [Rotation] and [Deskew] angles are applied in the counter-clockwise direction.



- In the case of arranged jobs, the skew angle can be set individually for each job.
- If there are two or more copies or if a job spans several pages, all jobs will be skewed with the same angle.

Important!

- The register marks set in [Register Mark] cannot be skewed.
  Register marks will be added to the image rectangle after the job has been skewed.



- The information set in [Printed Information Label] cannot be skewed.
- If [Crop] ☞ "Crop"(P. 58) has been set, the job will be skewed after cropping.
- The [Deskew] value will be disabled if [Tiling] or [Step & Repeat] is set after [Deskew] has been set in [General Print].

Important!

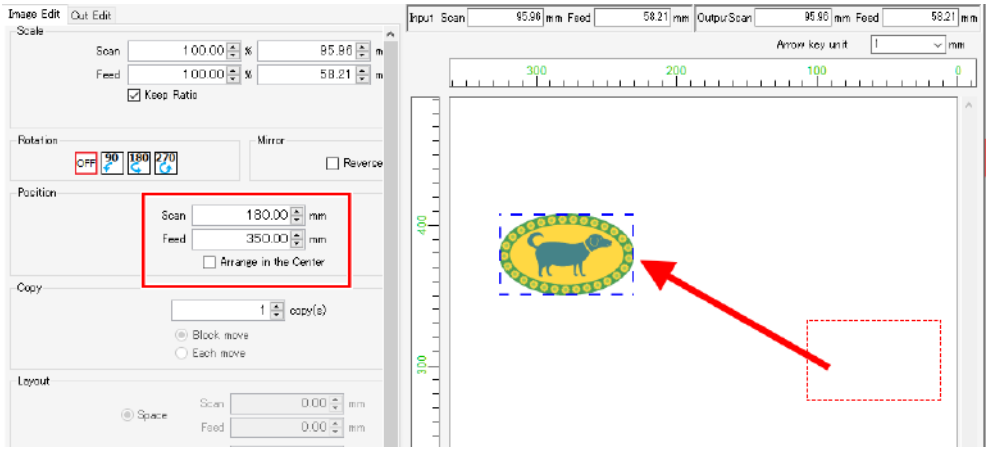
- Skewing jobs will cause outlines and straight lines to become slightly jagged.
  Jagged edges will become particularly noticeable when the original image is raster data with low resolution.
  When the original image is raster data, data should be created using a resolution close to the print resolution.

● Move jobs

Drag and move jobs

1 **Select a job to be moved in the preview.**

2 **Drag the job to the desired position.**



- The origin position of the job is displayed in [Width] and [Feed].

Set the job origin position

1 **Set [Width] and [Feed] for [Move] on the [Image Edit] tab.**

- The origin position of the job is moved by the [Width] and [Feed] size set here.

Position a job in the center of the media

1 **Select the [Arrange in the Center] check box for [Move] on the [Image Edit] tab.**

- If the job has been copied or arranged, the entire area will be positioned in the center of the media in the same way as in ☞ "Arrange in the center of the media."(P. 40).

Move a job to the trimming origin position (With flatbed printers)

1 **Select the [Lock the trimming position] check box for [Move] on the [Image Edit] tab.**

- The trimming origin position is locked in the display.

Important! The [Lock the trimming position] function cannot be used in the following cases.

- With arranged jobs
- With composite jobs
- With multi-page jobs
- When [Arrange in the Center] is enabled
- When two or more copies are set
- When register marks are printed
- Print cut lines
- When using jig printing
- When using tiling
- When using step & repeat printing
- When using Kebab jig printing

Move multi-page jobs

With multi-page jobs, [Move type] is displayed for [Position]. This allows the method to be specified for moving multi-page jobs.

● Move for individual pages

1 **Select [Move] - [Move type] - [Individual].**

2 **Select the page to be moved in the preview.**

3 **Set [Width] and [Feed] for [Move] on the [Image Edit] tab. Or drag the page selected on the preview.**

- Only the selected page is moved.

● Move all pages

1 **Select [Move] - [Move type] - [Whole].**

2 **Set [Width] and [Feed] for [Move] on the [Image Edit] tab. Or select and drag the page on the preview.**

- All of the multiple jobs are moved.

● Copy a job

Copy a job

1 **Select the number of copies to be made using [Copy] on the [Image Edit] tab.**

- The job is copied and automatically positioned.

The method for moving the copied image(s) can be specified from among the following:

- Block move: Allows all of the copied images to be moved together.
- Each move: Allows the copied images to be moved individually.

Move all copied jobs

1 **Select the number of copies required using [Copy] on the [Image Edit] tab.**

2 **Select [Block move].**

3 **Set [Width] and [Feed] for [Move] on the [Image Edit] tab. Images can also be moved by dragging on the preview.**

- All the copied jobs are moved by the [Width] and [Feed] size set here.

Important!

- With arranged jobs, the move method selection is not displayed, and is set to [Each move].
  Jobs should be selected then copied or moved individually.
- Multi-page jobs cannot be copied.
- Job which is set [Variable Edit] can't copy.

Move a copied job individually

1 **Select the number of copies to be made using [Copy] on the [Image Edit] tab.**

2 **Select a job to be moved in the preview.**

3 **Select [Each move].**

4 **Set [Width] and [Feed] for [Move] on the [Image Edit] tab. Images can also be moved by dragging on the preview.**

- Only the selected job is moved by the [Width] and [Feed] size set here.

● Set margin between jobs

Layout can be specified as [Space] or [Pitch].

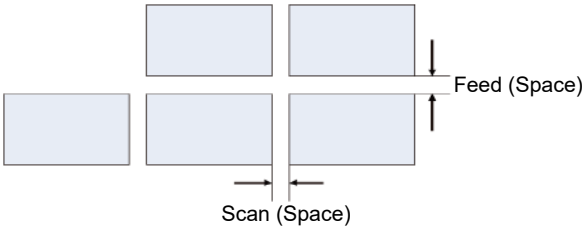
Set margin between jobs

1 **Select [Space] for [Layout] on the [Image Edit] tab.**

2 **Enter the necessary values for [Width] and [Feed].**

3 **Select the optimization for the preview, then click the [ ] icon.**

- The job is rearranged using the new margin settings. Check the results on the preview.
- The margins set using the [Arrange] function will be overwritten by the operation in Step 3.



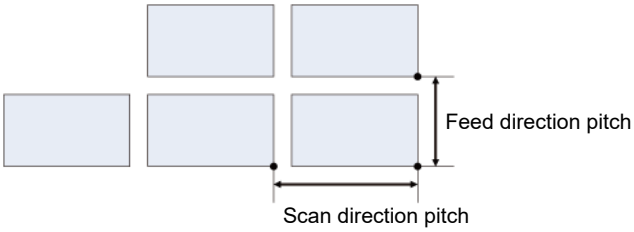
Set the distance from a job origin to the next job origin

1 **Select [Pitch] for [Layout] on the [Image Edit] tab.**

2 **Enter the necessary values for [Width] and [Feed].**

3 **Select the optimization for the preview, then click the [ ] icon.**

- The job is rearranged using the new margin settings. Check the results on the preview.



Important! [Pitch] is not displayed in the following cases.

- With arranged jobs
- With multi-page jobs

Position multiple pages side by side widthways

1 **Select the [Nest to Scan Direction] check box for [Layout] on the [Image Edit] tab.**

- With multi-page jobs, the [Nest to Scan Direction] is displayed in [Layout].

2 **Enter the necessary values for [Width] and [Feed].**

3 **Click the [] icon.**

- The multiple pages are rearranged using the new margin settings. Check the results on the preview.

- If the check box is unselected, pages will be positioned vertically.

● Set the printing pages

Set the printing pages

- With multi-page jobs, [Printing range] items are displayed.

1 **Set one of the following for [Printing page range] on the [Image Edit] tab.**

[All]	:	Prints all of the pages for multi-page jobs.
[Page specification]	:	Prints those pages set.

Setting example:

To print pages 2 to 5	:	[2-5]
To print pages 2, 4 and 6	:	[2,4,6]
To print pages 2 to 5 and pages 8 and 11	:	[2-5,8,11]

● Set the print area (with flatbed printers)

- Registering a valid print area provides a guide when positioning images. It also prevents printing outside the range of the media.

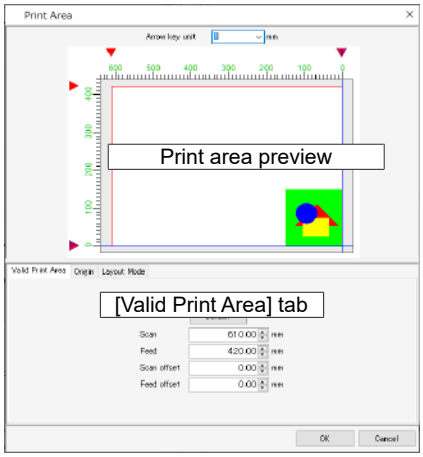
1 **Enter the name of the new print area template to be set in the text input box for [Print Area] on the [Image Edit] tab.**

2 **Click the [] icon.**

- The new template will be registered.

3 **Click [Setup].**

- The [Print Area] dialog appears.



- Print area preview
  The valid print area set on the [Valid Print Area] tab is indicated by a red rectangle.
- [Valid Print Area] tab

4 **Set the following items.**

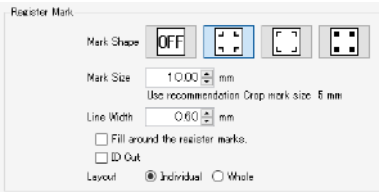
- [Default] : Sets the valid print area to the maximum size and sets the origin position at the default origin position for the printer.
- [Width] : Enter the width of the valid print area.
- [Feed] : Enter the feed for the valid print area.
- [Scan Offset] : Enter the offset distance from the printer origin in the width direction.
- [Feed Offset] : Enter the offset distance from the printer origin in the feed direction.

● Set register marks

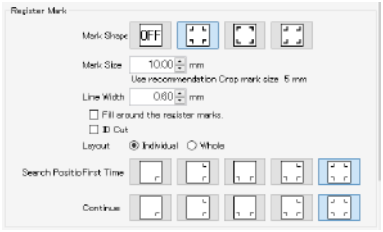
Important! • Multi-page jobs cannot be added register mark.

1 **[Register Mark] on the [Image Edit] tab is used to set the register marks added to jobs. Register marks are used to detect the cutting positions. Set the mark shape to suit the settings for the printer and cutting plotter.**

For JV300 Plus

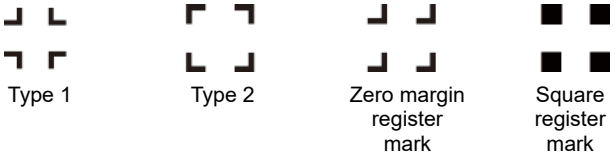


For CJV300 Plus



- **[Mark Shape]**

The following mark shapes can be selected. Select [OFF] if you do not wish to add register marks.



Zero margin register marks

Important! • The Zero margin register mark can only be used when using CJV300, CJV150, UCJV300, CJV300 Plus.

Using zero margin register marks allows the amount of media used in printing & cutting to be reduced compared to the Type 1 or Type 2 marks.
Zero margin register marks can be set as follows.

1 Set the following conditions on the [General Print] screen.

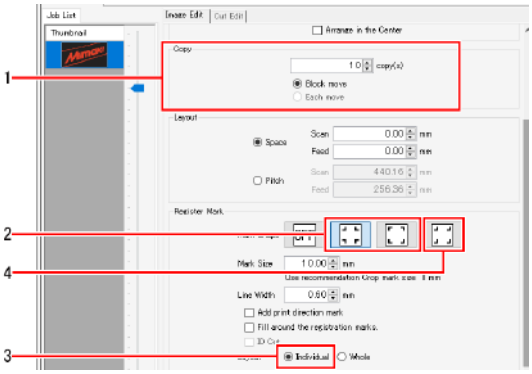
(1) Set [Copy] to a number greater than one.

(2) Select [Block move] for the copy move method.

2 Select [ ] (Type 1) or [ ] (Type 2) for the register mark shape.

3 Select [Individual] for the register mark position. [ ] (zero margin register mark) is now available for selection.

4 Select [ ] (zero margin register mark) for the register mark shape.

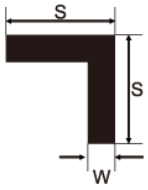


Square register marks

These cannot be used with printing and cutting machines.

- **[Size], [Line Width]**

The register mark size can be altered. [Use recommendation Crop mark size] indicates the recommended size to ensure detection using Mimaki printers and cutting plotters. Enter a value greater than this.



S: Register mark size

W: Register mark width

- The value for [Use recommendation Crop mark size] will vary depending on the job size.

- **Add print direction mark**

This adds a ▼ symbol when the register mark is printed.
Adding this mark ensures that printed media is fed into the printer in the correct direction when working with jobs that make it difficult to identify the direction.

Important! This function can be used only with the CJV150, CJV30, CJV300, UCJV300, and CJV300 Plus.

Important! The print direction mark function cannot be used in the following cases.

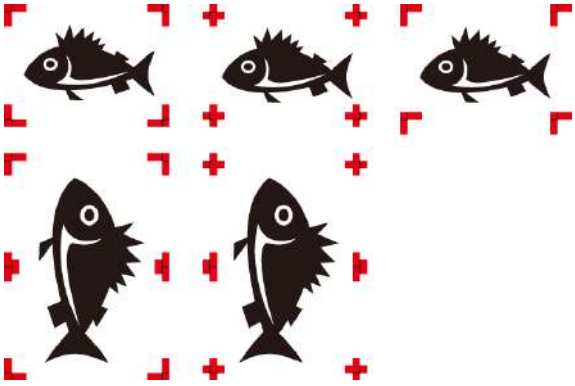
- When zero margin register mark is selected for [Shape] in [Register Mark]
- When an intermediate register mark is selected for [Shape] in [Register Mark]
- When the separation between register marks is less than 20 mm
- When the ID cut function is enabled
- With arranged jobs

Important!

- The print direction mark function cannot be registered as a favorite.
- When a job is rotated, the position of the print direction marks is moved to match the rotation.
- The size of the print direction marks does not change even when the register mark size or scale is changed.

- **[Fill around the register marks]**

The areas around the register marks can be filled in using red. This enables the register marks to be detected if they cannot be correctly detected on media whose background color is not white.

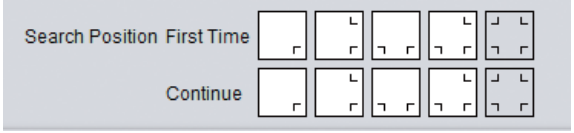


- **[Layout]**

This allows you to select whether register marks are added to each individual job or to the overall layout on which multiple jobs are positioned.

[Individual] : Adds register marks for each job. This increases the time taken for reading in, as the register marks have to be detected for each job when cutting, but it minimizes any offset between printing and cutting.

If [Individual] is selected and register marks are set to be printed for print & cut jobs, a screen appears for setting the register mark detection positions.



- Increasing the number of register marks to be read in increases the cutting position accuracy, but also increases the time taken.
- The register mark detection positions can be changed between the first time and subsequent times.

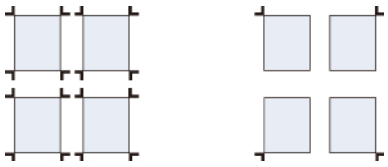
Important! The following functions will not be available for use if [Individual] is selected for the register mark placement.

- [Tiling]
- [Step & Repeat]

Important! Note that a register mark detection error will occur if [Individual] is selected for the register mark placement and the register marks are positioned as follows.

- When multiple copies are set and the number of jobs for the last row is smaller than the number of jobs for the first row

[Whole] : Adds register marks for the overall layout of multiple jobs. This reduces the time taken for reading in compared to [Individual], as there are fewer register marks to be detected, but it increases the offset between printing and cutting.



Important! The following functions will not be available for use if [Whole] is selected for the register mark placement.

- [Tiling]
- [Step & Repeat]
- [Crop]

Important! RasterLink7 cannot be used with the register mark detection function of Mimaki cutting plotters with the exception of print&cut machine or ID cutting.

- When cutting with a Mimaki cutting plotter after printing, add the register marks using FineCut.

- **[Intermediate Register Marks]**

Important! • [Intermediate Register Marks] can be used only with the CJV300, CJV150, UCJV300, and CJV300 Plus.

Intermediate register marks can be added when [Whole] is selected for the register mark placement.

Adding intermediate register marks ensures more accurate cutting with long-length jobs.

[Direction] : Sets the orientation of intermediate register marks.

[Count] : Sets the number of intermediate register marks. (The number can be set in a range from 2 to 10.)

Important! The following points should be noted when setting intermediate register marks.

- Set the count to ensure that the register marks are spaced at least 50 mm apart.
- Set the offset to at least the size of the register marks.

- **[Offset]**

This allows an offset to be set between the register marks and the jobs.

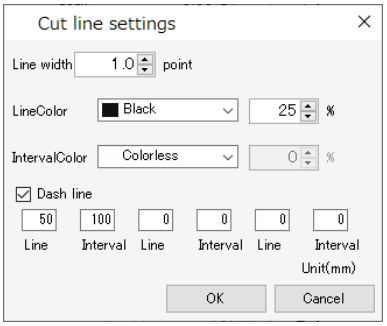
● Print cut lines

1 Select the [Cut line] check box for [Cut line] on the [Image Edit] tab.

2 Click [Setup].

- The [Cut line settings] dialog appears.

3 Set the following items.



[Line Width] : Set in a range between 0.3 point and 30 point (in 0.1 point increments).

[Line Color] : Set the line color.

[Interval Color] : Set the color between lines.

[Dashed line] : Selecting the check box changes lines to dashed lines.

[Dashed line style] : Set the length of dashes and intervals between dashes in the dashed lines.

- Selecting the [Cut line] check box displays the output size as the size including the cut lines.

Important! Cut lines cannot be printed in the following cases.

- When [Step & Repeat] is set
- When [Shape] is specified as other than [OFF] in [Register Mark]
- For jobs with register marks output using RasterLink from FineCut

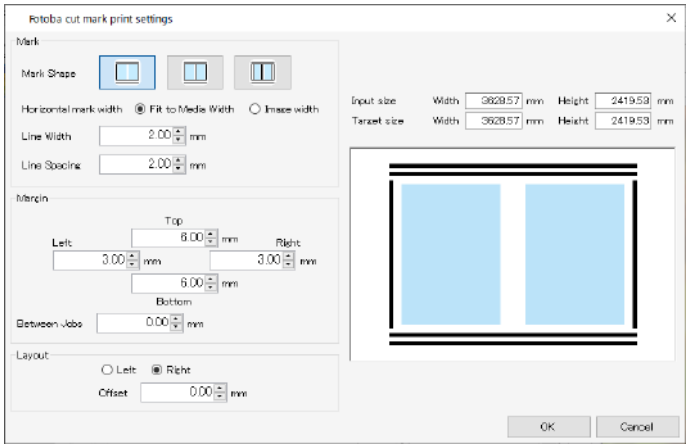
● Set Fotoba cut marks

1 Select the [Add fotoba cut mark] check box for [Fotoba cut mark] on the [Image Edit] tab.

2 Click [Detail].

- The [Fotoba cut mark print settings] dialog appears.

3 Set the following items.



[Mark Shape] : Sets the marks between jobs. Select [ ] if you do not wish to print vertical marks between jobs, select [ ] if you wish to print vertical marks between jobs, and select [ ] if you wish to use double lines for the vertical marks.

[Horizontal mark width] : Select the width of the marks in the scan direction.

[Line Width] : Set in a range from 1.0 mm to 3.0 mm.

[Line Spacing] : Set the spacing between the double lines in a range from 1.0 mm to 3.0 mm.

[Margin] : Set the margins between jobs and marks.

[Between Jobs] : The margins between jobs can be set if [ ] (do not print vertical marks between jobs) is selected for [Shape]. Set in a range from 1.0 mm to 1,000.0 mm.

[Layout] : Select the job placement position.

[Offset] : This allows the distance to the mark from the right-hand edge to be set when [Right] is selected, and the distance to the mark from the left-hand edge to be set when [Left] is selected.

Important! Fotoba cut marks cannot be added in the following cases.

- With Print & Cut jobs
- With jobs using step & repeat printing
- Special plate job
- With jobs for which any of the following are set on the [General Print] screen (Register mark shape is not set to [OFF], [Lock the trimming position] is selected, or [Cut line] is selected)
- With jobs for which [Print Corner Mark] or [Cut line] is selected from the [Tiling] screen
- With auto execution

- [Target size] displays the size (calculated size) after cutting using a Fotoba Series.
- This can be used in conjunction with the copy, arrangement, and tiling functions.

● Set information labels

1 Select the [Add label] check box for [Information label] on the [Image Edit] tab.

2 Select the check box for the information to be added.

● Print

1 Click the [] icon in the preview.

- This starts ripping and printing using the same settings as the last time [Execute] was used. For more information on settings, refer to ☞ "Execute"(P. 98).

2.2.7 Tiling

Divides large jobs before printing.

Tiling - Functions

- In RasterLink7, items to be processed, such as signs, are referred to as "work", and divided work is referred to as "tiles".

[Tiling] allows the following operations.

- Enlarge or reduce a tiling job
- Rotate a tiling job
- Reverse a tiling job
- Set the output range for the work
- Divide the work into tiles
- Set overlap
- Print tile numbers
- Print cut lines
- Set the tile printing order
- Reverse tiles in even columns
- Position tiles in desired locations
- Move specified tiles

- Work can be divided into up to 100 tiles.

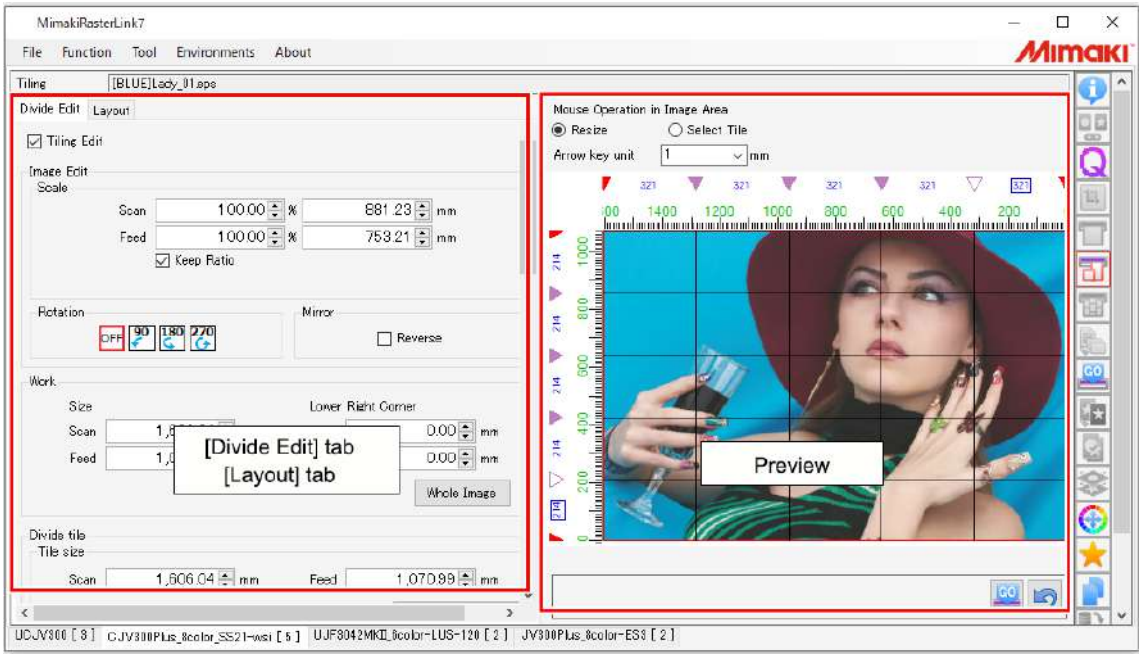
● Conditions

[Tiling] cannot be set for jobs with the following settings.

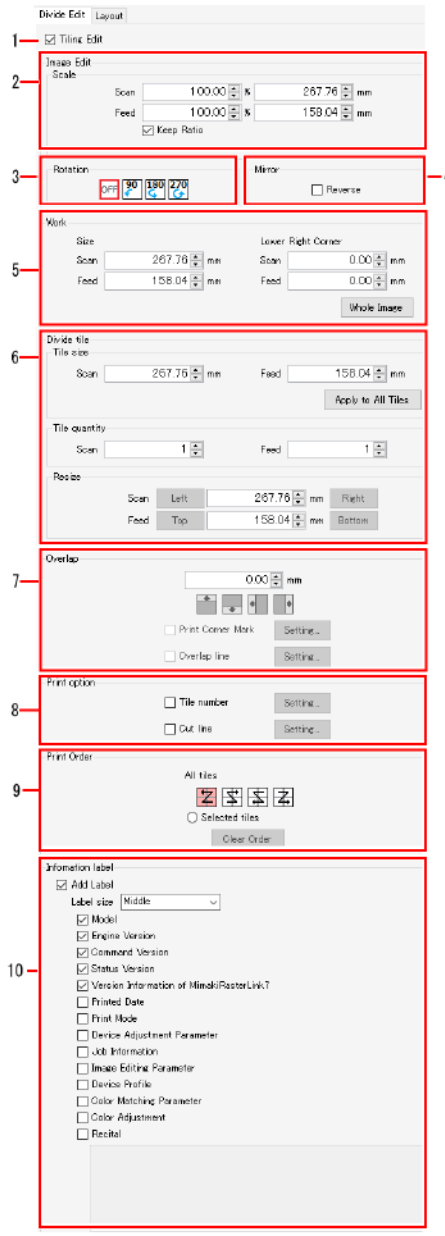
- [Arrange]
- [Step & Repeat]
- [Composite]
- [Print & Cut]
- When register marks are set in [General Print]
- When two or more copies are set in [General Print]
- With multi-page jobs
- [Variable Edit]
- [Edge Optimizer]
- [Lock the trimming position] is selected

Tiling - Screen Layout

- **[Tiling] screen**



● [Divide Edit] tab



1. [Tiling Edit]

Selects whether or not to set [Tiling].

2. [Scale]

Enlarges and reduces jobs.

3. [Rotation]

Rotates the job.

4. [Mirror]

Reverses the job.

5. [Work]

Sets the output range for the work.

6. [Divide tile]

Divides the work into tiles.

7. [Overlap]

Sets the overlap for adjacent tiles.

8. [Option]

Sets the numbers and outer frames printed for tiles.

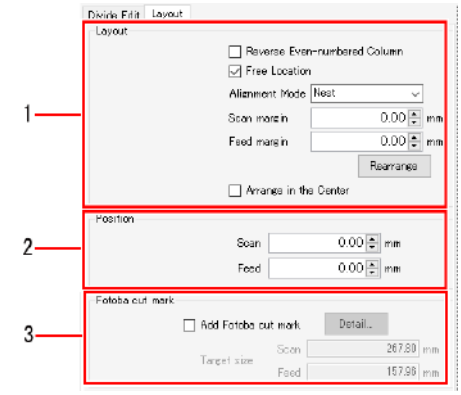
9. [Print Order]

Selects the tiles to be printed and sets the tile printing order.

10. [Printed Information Label]

Selects information to be printed.

● [Layout] tab



1. [Placement]

Sets the layout mode when printing tiles.

2. [Position]

Adjust the position of specified tiles.

3. [Fotoba cut mark]

Selecting the check box prints cut marks used with the Fotoba Series (high-speed finishing cutter machine).
For information on the setting procedure, refer to "Set Fotoba cut marks"(P. 77).

Tiling - Operations

● Start tiling setting

1 **Select the [Tiling Edit] check box on the [Divide Edit] tab.**

- This allows the various [Tiling] function settings to be edited.

● Enlarge or reduce a tiling job

1 **Select the [Valid] check box in [Scale].**

2 **Sets [Width] and [Feed] for the job to be printed.**

- [Width] and [Feed] can be set as ratios (%) or size.
- If the [Keep aspect ratio] check box is selected, jobs can be enlarged or reduced while retaining the aspect ratio of the original image.

● Rotate a tiling job

1 **Select the angle for counter-clockwise rotation in [Rotation].**

● Reverse a tiling job

1 **Select the [Reverse] check box in [Mirror].**

● Set the output range for the work

1 **Set the [Width] and [Feed] for [Size] in [Work].**

2 **Set the [Width] and [Feed] for [Lower Right Corner].**

- The lower right reference point of the work is updated.
- The range of the output work is indicated by red lines in the preview.

- Clicking [Whole Image] resets the settings.

● Divide the work into tiles

Divide by setting tile size

1 **Set the [Width] and [Feed] for [Tile size] in [Divide tile].**

2 **Click [Apply to All Tiles].**

- The work is divided based on the lower right reference point.

Divide by setting number of tiles

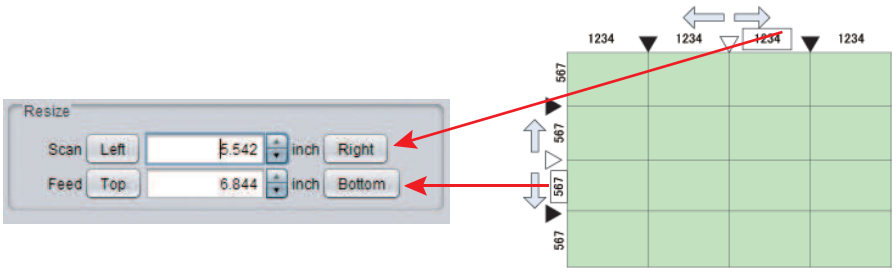
1 **Set the value for [Width] for [Tile quantity] in [Divide tile].**

2 **Set the value for [Feed] for [Tile quantity].**

- The work is divided equally into identical size tiles.

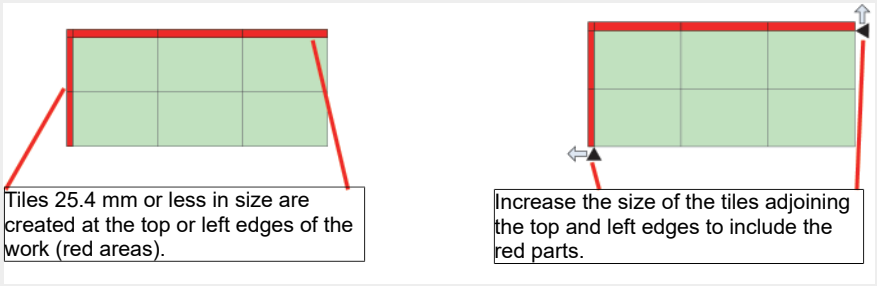
Setting tile size individually

Use the [Right], [Left], [Top], and [Bottom] buttons to select the required tile and specify the size.
The size of a selected tile is displayed in the preview in boxes as shown below.
Clicking a ▼ symbol selects it (changing to ▽) and allows fine adjustment using the cursor keys.



Important!

- Set each tile to a size at least 25.4 mm per side.
  Tiles less than 25.4 mm in size may be created at the top edge or left edge of the work.
  In such cases, increase the size of the tiles adjoining the top edge or left edge using [Resize].
- If tiles measuring 25.4 mm or less are present, a warning message will appear when printing or switching between screens, and processing will be aborted.

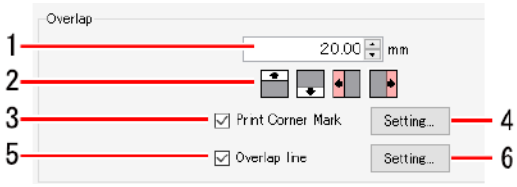


Tiles 25.4 mm or less in size are created at the top or left edges of the work (red areas).

Increase the size of the tiles adjoining the top and left edges to include the red parts.

● Set overlap

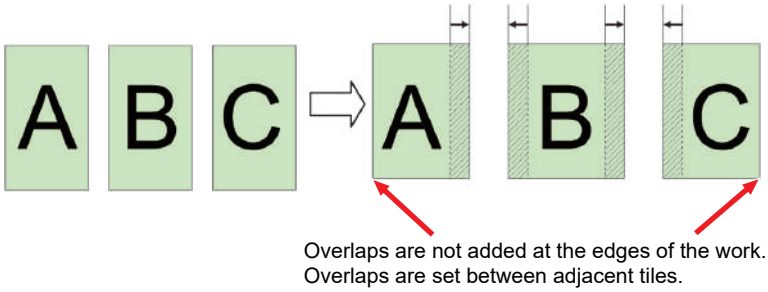
When producing signs, gaps may result when tiled images are pasted unmodified.
Overlaps can therefore be set for areas between adjacent tiles to prevent this.



1 **Enter the overlap length in the numerical input box (1 in the figure above) in [Overlap].**

2 **Click the required overlap position selection icons (top, bottom, left, and right icons, 2 in the figure above).**

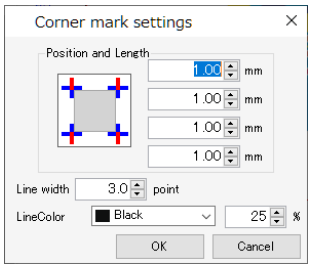
- The clicked icons change color.
- The following figure shows an example with the work divided into three widthways. The overlap will be set as shown below (overlap indicated by shaded areas) if the "Left" and "Right" overlap position selection icons are clicked.



3 **If you wish to print marks for aligning the tiles after printing, select the [Print Corner Mark] check box (3 in the figure above).**

4 **The [Corner mark settings] dialog appears when the [Setup] button (4 in the figure above) is clicked.**

[Corner mark settings] dialog



[Position and Length] : Sets the line length (0 mm to 100 mm) for the + marks. (The locations of the lines in the + marks currently being edited in the dialog for which the length is being changed are indicated in red.)

[Line Width] : Sets the line width (0.3 pt to 30 pt) for the + marks. This can be set in 0.1 pt increments.

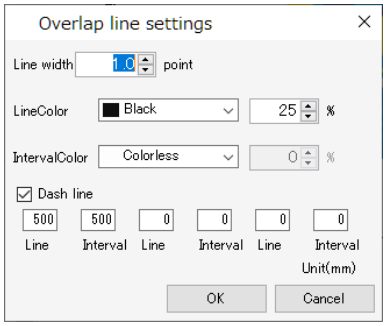
[Color] : Sets the line color and density for the + marks.

- Clicking [OK] applies the settings.

5 **If you wish to print lines at the boundaries between the tile body and the overlap, select the [Overlap line] check box (5 in the figure above).**

6 The [Overlap line settings] dialog appears when [Setup] (6 in the figure above) is clicked.

[Overlap line settings] dialog



[Line Width] : Sets the line width. This can be set in 0.1 pt increments.

[Line Color] : Sets the line color.

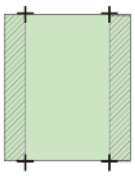
[Interval Color] : Sets the color between lines.

[Dashed line] : Selecting the check box changes lines to dashed lines. The length of dashes and interval between dashes can be set in 1 mm or 0.1 inch increments.

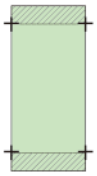
- Clicking [OK] applies the settings.

Corner marks and overlap lines will be printed on the overlaps.

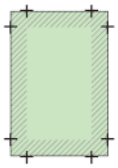
Corner marks



With overlaps on the left and right

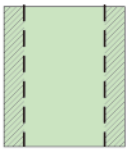


With overlaps at the top and bottom



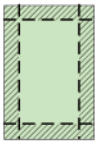
With overlaps on all four sides

Overlap lines



With overlaps on the left and right

With overlaps at the top and bottom



With overlaps on all four sides

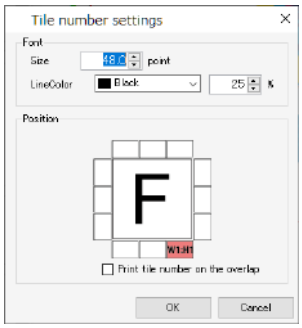
● Print tile numbers

Enabling this setting prints the tile numbers to make it easy to determine the position of each printed tile.

1 **Select the [Tile number] check box in [Option].**

2 **The [Tile number settings] dialog appears when [Setup] is clicked.**

[Tile number settings] dialog



[Size] : Sets the font size for the tile numbers to be printed. (10 point to 120 point)

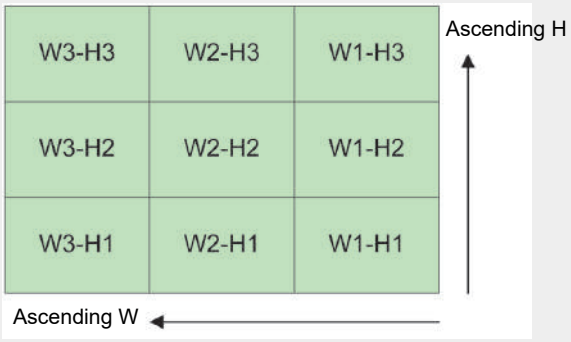
[Line Color] : Sets the color for the tile numbers to be printed.

[Position] : Sets the position at which tile numbers will be printed.

[Print tile number on the overlap] : Selecting the check box prints tile numbers on the overlaps.

- Clicking [OK] applies the settings.

- The tile numbers are indicated with W for the scan direction and H for the feed direction, with the tile at the bottom right (print origin) numbered (1,1).



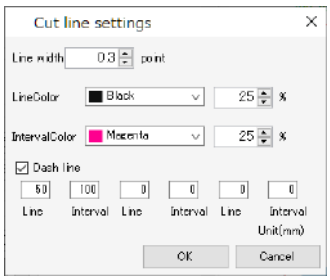
● Print cut lines

Enabling this setting prints cut lines around the tiles. This can be used as a guide for cutting when tiles have white areas.

1 **Select the [Cut line] check box in [Option].**

2 **The [Cut line settings] dialog appears when the [Setup] button is clicked.**

[Cut line settings] dialog



[Line Width] : Sets the line width. This can be set in 0.1 pt increments.

[Line Color] : Sets the line color.

[Interval Color] : Sets the color between lines.

[Dashed line] : Selecting the check box changes lines to dashed lines. The length of dashes and interval between dashes can be set in 1 mm or 0.1 inch increments.

- Clicking [OK] applies the settings.

- Cut lines are printed on the perimeter of the tiles including the overlaps.

● Set the tile printing order

Print all tiles

1 **Click the [ ] icon for [All tiles] in [Print Order].**

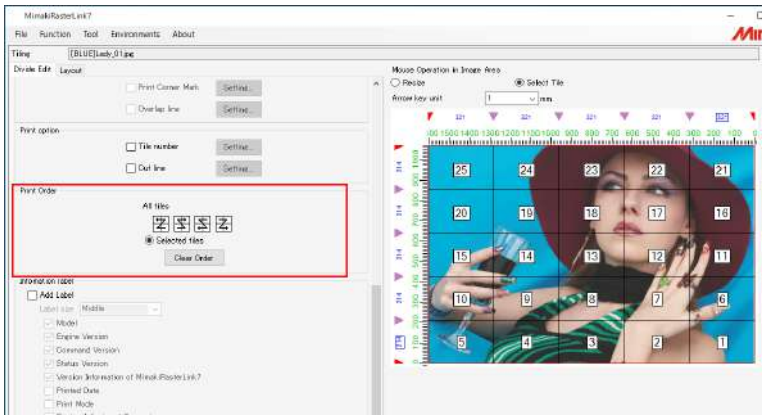
Example: Dividing the work into 9 tiles

Icon				
Print order	9 8 7 6 5 4 3 2 1	7 8 9 4 5 6 1 2 3	3 2 1 6 5 4 9 8 7	1 2 3 4 5 6 7 8 9

Print specified tiles

1 Select [Selected tiles in [Print Order].

- Numbers are displayed on the tiles in the preview indicating the print order.

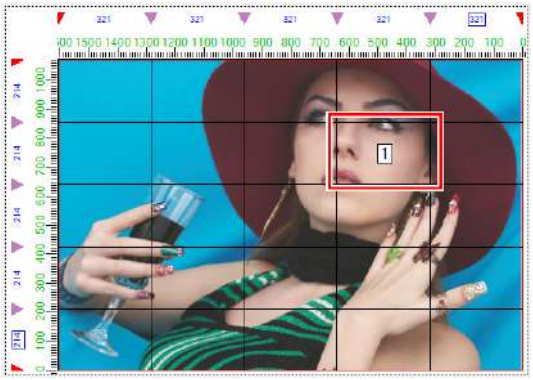


2 Click [Clear Order].

- This removes the numbers from the preview.

3 Click the tiles to be printed in the preview.

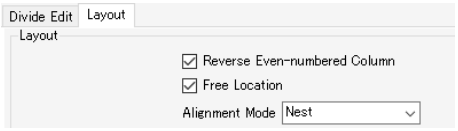
- Numbers are displayed on the tiles clicked indicating the print order.
- The print order is determined by the order in which the tiles are clicked.
- Clicking [Clear Order] resets the print order specified.



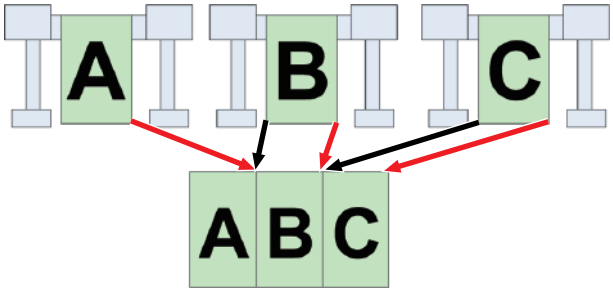
● Reverse tiles in even columns

Slight color differences may occur between the left and right sides of the printer due to uneven heater temperature.
This may result in the border sections of adjacent tiles standing out when the tiles are pasted together.
In such cases, print by reversing the tiles in even columns.

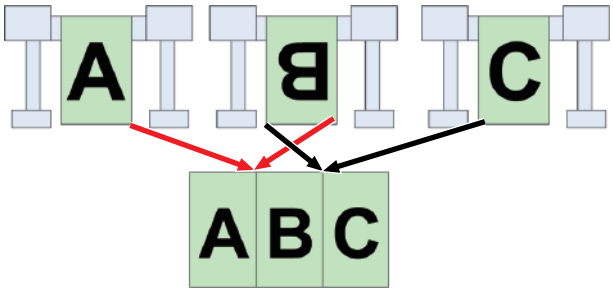
1 **Select the [Reverse Even-numbered Column] check box in [Placement] on the [Layout] tab.**



- [Reverse Even-numbered Column] unselected: All tiles are printed with the same orientation.

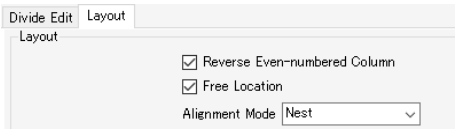


- [Reverse Even-numbered Column] selected: Tiles in even-numbered columns (tile B in this example) are rotated by 180° before printing.



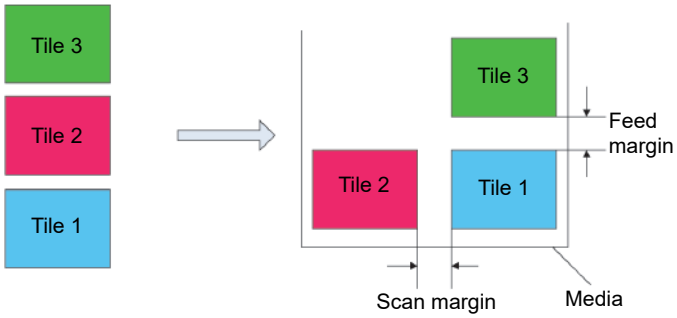
● Position in desired locations

1 **Select the [Free Location] check box in [Placement] on the [Layout] tab.**

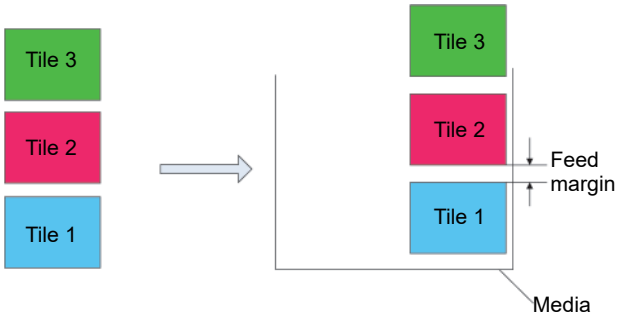


2 **Select [Alignment Mode].**

- [Nest]: Places tiles side by side widthways.



- [Sequential]: Places tiles side by side in the feed direction.



3 **Set [Scan margin] and [Feed margin].**

4 **Click [Rearrange].**

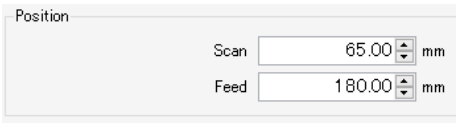
- Selecting the [Arrange in the Center] check box positions for all of the tiles in the center of the media.
- Tiles can be positioned as desired by dragging them on the preview.

● Move specified tiles

1 **Select the tile to be moved in the preview.**

2 **Set the values for [Width] and [Feed] in [Move] on the [Layout] tab.**

- The tile is moved accordingly.



● Print

1 **Click the [ ] icon in the preview.**

- This starts ripping and printing using the same settings as the last time [Execute] was used. For more information on settings, refer to ☞ "Execute"(P. 98).

2.2.8 Step & Repeat

Lays out image data with no gaps between them before printing.

Step & Repeat- Functions

[Step & Repeat] allows the following operations.

- Enlarge or reduce a step & repeat printing job
- Rotate a step & repeat printing job
- Reverse a step & repeat printing job
- Move an entire job
- Set the job layout and print size
- Set sticker printing (when using a roll-to-roll printer)

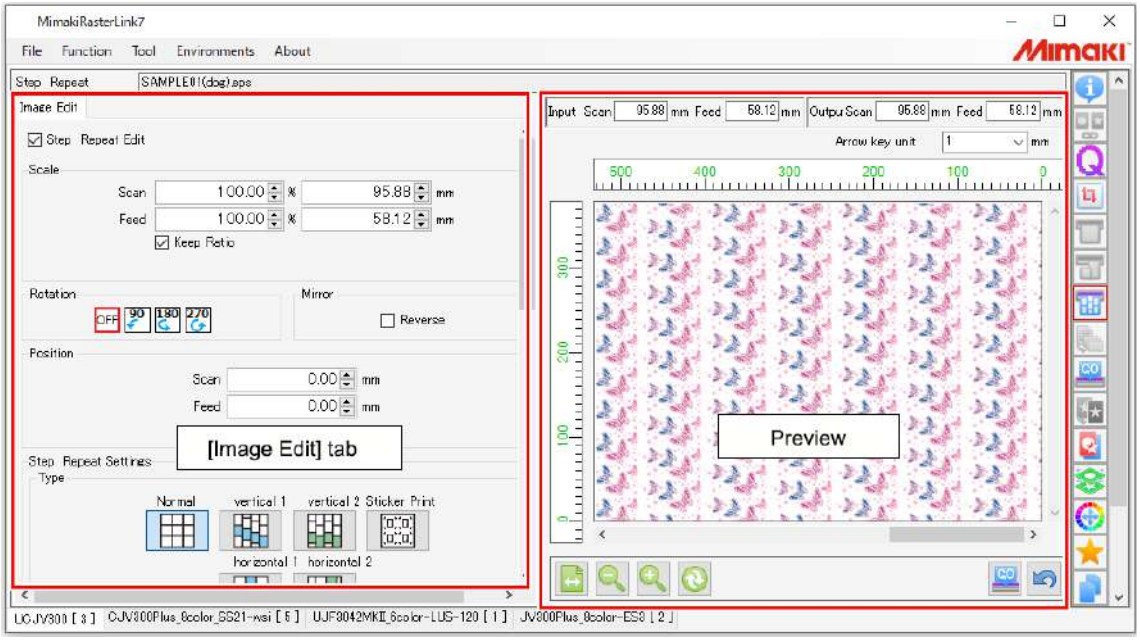
● Conditions

[Step & Repeat] cannot be set for jobs with the following settings.

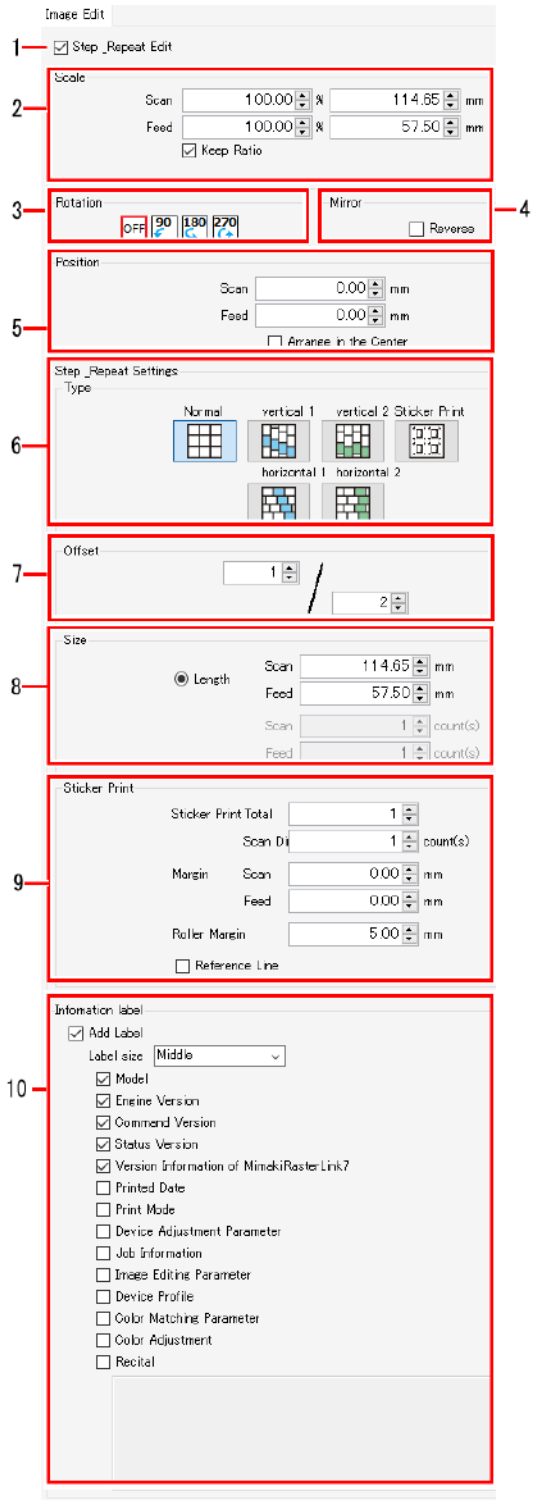
- [Arrange]
- [Tiling]
- [Print & Cut]
- With multi-page jobs
- When two or more copies are set in [General Print]
- When register marks are set in [General Print]
- With composite jobs including special plate jobs created using [Special plate]
- With composite jobs including jobs for which the special color ink is set for [Ink after replacement] in [Mono Color]
- [Variable Edit]
- [Edge Optimizer]
- [Lock the trimming position] is selected

Step & Repeat - Screen Layout

● **[Step & Repeat] screen**



● [Image Edit] tab



1. [Step & Repeat]

Selects whether or not to use step & repeat printing.

2. [Scale]

Enlarges and reduces jobs.

3. [Rotation]

Rotates the job.

4. [Mirror]

Reverses the job.

5. [Position]

Moves the entire job positioned using [Step & Repeat].

6. [Type]

Sets the job layout.

7. [Offset]

Adjusts the job layout.

8. [Size]

Sets the size to be printed.

9. [Sticker Print] (When using a roll-to-roll printer)

Sets sticker printing.

10. [Printed Information Label]

Selects information to be printed.

Step & Repeat- Operations

● Start step & repeat printing setting

1 **Select the [Step & Repeat Edit] check box on the [Image Edit] tab.**

- This allows the various [Step & Repeat] screen settings to be edited.

● Enlarge or reduce a step & repeat printing job

1 **Select the [Valid] check box in [Scale] on the [Image Edit] tab.**

2 **Sets [Width] and [Feed] for the job to be printed.**

- If the [Keep aspect ratio] check box is selected, jobs can be enlarged or reduced while retaining the aspect ratio of the original image.

● Rotate a step & repeat printing job

1 **Select the angle for counter-clockwise rotation in [Rotation] on the [Divide Edit] tab.**

● Reverse a step & repeat printing job

1 **Select the [Reverse] check box in [Mirror] on the [Image Edit] tab.**

● Move an entire job

Set the origin position

1 **Enter [Width] and [Feed] for [Move] on the [Image Edit] tab.**

- The origin position of the entire job is changed by the [Width] and [Feed] values set here.

Position in the center (widthways)

1 **Select the [Arrange in the Center] check box for [Move] on the [Image Edit] tab.**

- The entire job will be positioned in the center of the media (widthways).

● Set the job layout

1 Select one of the [Type] icons on the [Image Edit] tab.

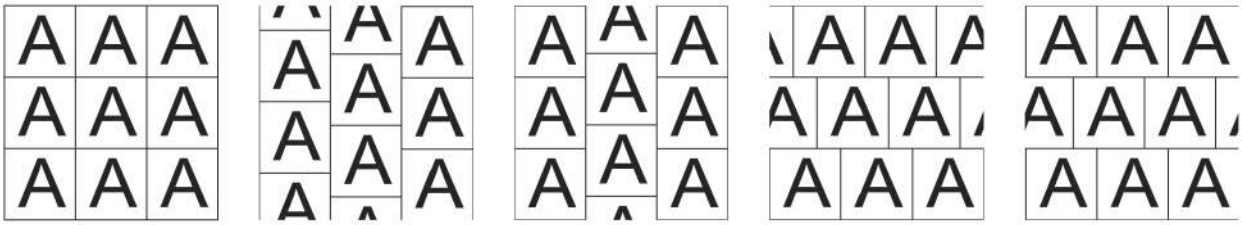
[Type] icon

	[Normal]	:	Arranges using uniform rows and columns.
	[Vertical 1]	:	Arranges by offsetting vertically. An offset amount is added for each column.
	[Vertical 2]	:	Arranges by offsetting vertically. Only even rows are offset.
	[Horizontal 1]	:	Arranges by offsetting horizontally. An offset amount is added for each row.
	[Horizontal 2]	:	Arranges by offsetting horizontally. Only even rows are offset.
	[Sticker Print]	:	Refer to "Set sticker printing (when using a roll-to-roll printer)" ☞ P. 97.

2 Set a desired value for [Offset].

- The offset for rows or columns is set as a fraction.
- The left-hand input box indicates the numerator, and the right-hand input box indicates the denominator.

Example: With offset set to 1/3



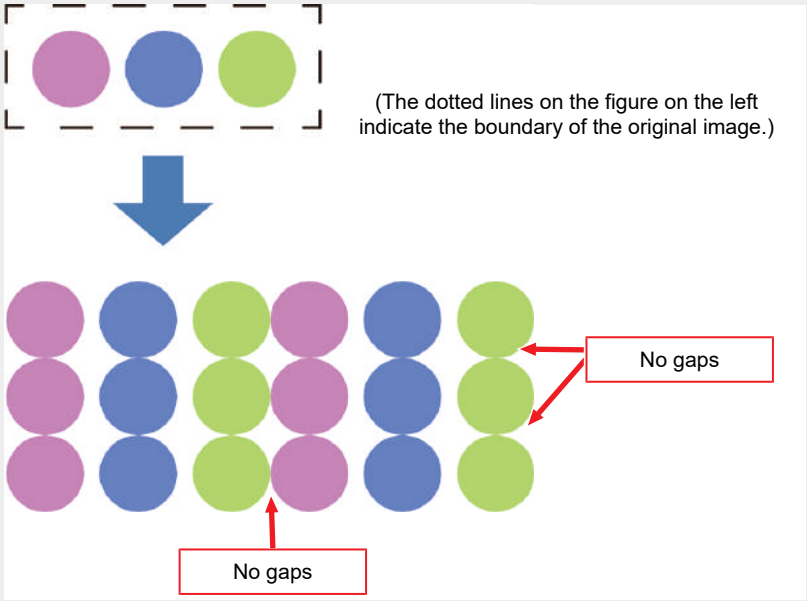
3 Set the size to be printed in [Size].

- **When specifying using length**
  Set [Width] and [Feed] (maximum 950,000 mm) in [Length].
- **When specifying by number**
  Set [Width] (number of columns) and [Feed] (number of rows) in [Number of Pieces].
  The maximum value for number of feed pieces will be 950,000 mm divided by the scaled image feed size.

Important! **Margins around original image**

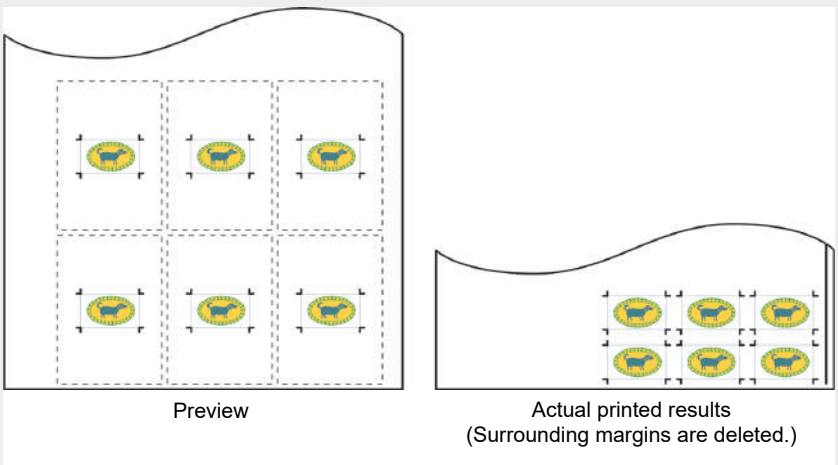
- The margins surrounding the original images will be deleted when arranging jobs.
- Even if margins were intentionally set when the original images were created, these will still be deleted.

Example: When the [Normal] icon is selected and the width is set to 2 and the height is set to 3 with [Number of Pieces]



Important! **Difference between preview and actual printing results**

- The preview will differ from the actual printing results.
- The preview shows the margins not deleted.



● Set sticker printing (when using a roll-to-roll printer)

Copies when placing cut jobs side by side.

1 Click the [ ] icon for [Type] on the [Image Edit] tab.

2 Set the various items in [Sticker Print]

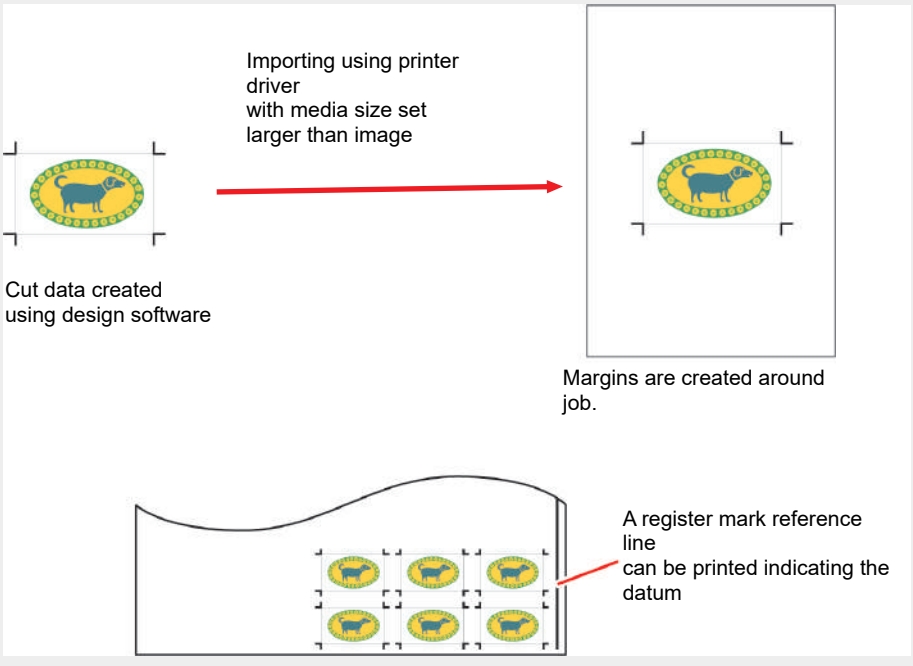
[Total]	:	Sets the number of jobs.
[Width direction]	:	Sets the number of jobs arranged in the width direction.
[Margin]	:	Sets the interval between jobs.
[Roller Margin]	:	Sets the margin on the right side of the media.

Important!
- For information on the [Margin] and [Roller Margin] values, refer to the operation manual for the cutting plotter being used.

[Reference Line] : Prints a line forming the datum when cutting using a cutting plotter.

- Margins may be created around a job if the print data is imported to RasterLink7 using a printer driver. Margins are especially likely to be created if the print media is set larger than the job in the printer driver settings.
- If [Margin] is set for [Sticker Print] when there are margins surrounding a job, the margins around the job will be deleted, and the specified margins will be inserted between jobs.
- When cutting jobs using a cutting plotter, you must specify whether the left or right register mark should be read first. Using the register mark reference lines enables the register mark read first to be set.

Results of outputting an image using the printer driver



● Print

1 Click the [ ] icon in the preview.

- This starts ripping and printing using the same settings as the last time [Execute] was used. For more information on settings, refer to ☞ "Execute"(P. 98).

2.2.9 Execute

Prints and cuts the selected job.

Important! When RasterLink7 and RasterLink6Plus are installed in one PC and the same printer is registered with each RasterLink via Ethernet connection.

- While printing a job, do not execute the print with another RasterLink. Jobs of another RasterLink can not print.

Execute - Functions

[Execute] allows the following operations.

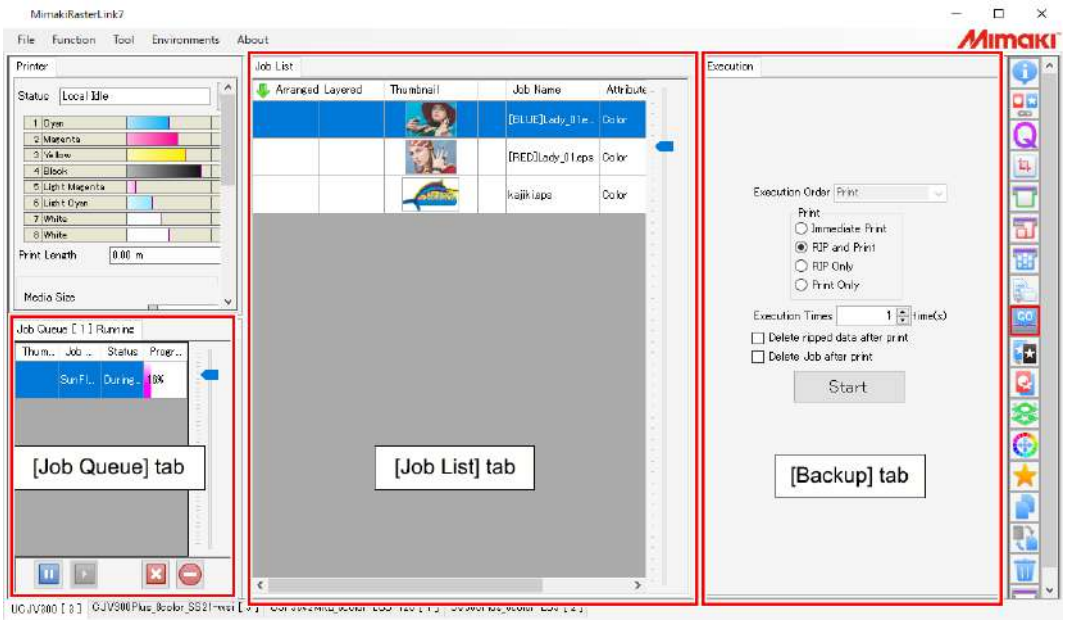
- Rip and print
- Printing and cutting (with compatible models)

● Conditions

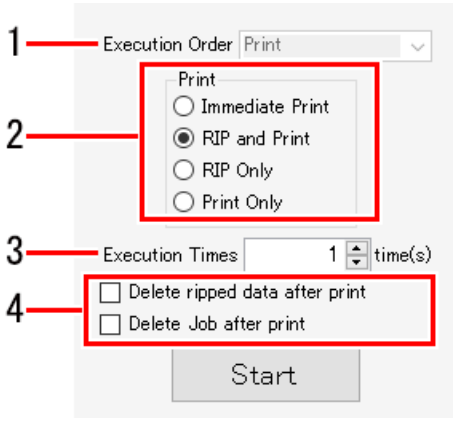
In the following cases, [RIP and Print] will be performed automatically, even if [Immediate Print] is set.

- With jobs with [Arrange] set
- With jobs with [Composite] set
- With jobs with [Step & Repeat] set
- When multiple copies are set in [General Print] and [Each move] is set for the move method
- When [Free Location] is selected for [Tiling]
- With print & cut printing jobs
- Jobs with [Variable Edit] Set
- When clear ink is set to be printed two or more times
- When [Add fotoba cut mark] is set

Execute - Screen Layout



● [Execute] tab



1. [Execution Order]

Selects the execution method (printing & cutting, printing only, or cutting only).

- This will be selected as [Print] for print jobs. The setting cannot be changed.

2. [Print]

Selects the ripping and printing method. ☞ "Rip and print"(P. 101)

3. [Execution Times]

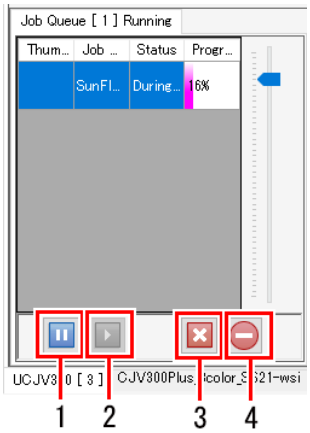
Sets the number of execution times.

- This will be shown as [Print Count] for print jobs.

4. Execution Option

Sets the deletion process after execution. ☞ "Execute - Operations"(P. 101)

● [Job Queue] tab



1. Suspend icon

Pauses the processing currently being executed.

2. Resume icon

Restarts processing for a paused job.

3. Stop icon

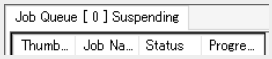
Stops processing for a selected job.

4. All stop icon

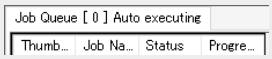
Stops processing for all jobs.

- The [Job Queue] tab displays the status as follows.

[Running]: Status when job importing, ripping, or printing is possible.



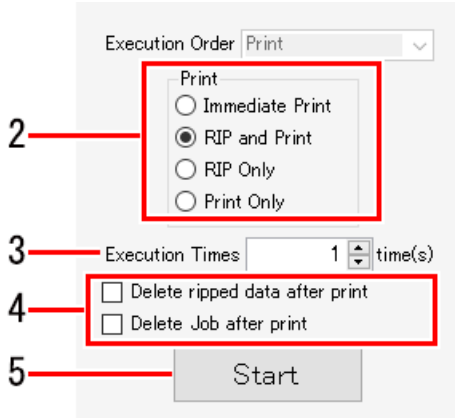
[Suspending]: Status when job importing, ripping, or printing is not being performed.



[Auto executing]: Status when auto execution ☞ "Auto Execution"(P. 191) is in progress.

Execute - Operations

● Rip and print



1 **Select a job in the [Job List].**

2 **Select the items in [Print] on the [Execute] tab.**

- [Immediate Print]: Rips and prints simultaneously.

- Depending on the printer model and other conditions, [RIP and Print] may be executed automatically, even if [Immediate Print] is set. (☞ "Conditions"(P. 98))
- If the original image data is complex, printing may pause when ripping is unable to keep up with the printing speed. [RIP and Print] should be selected in such cases.
- Ripped data will not be created if [Immediate Print] is selected.

- [RIP and Print]: Printing is executed after ripping is complete.
  Ripped data is created.
- [RIP Only]: Only ripping is performed. Printing is not performed.
  Ripped data is created.
- [Print Only]: Only printing is performed.

- [RIP and Print] will be executed automatically if [Print Only] is selected when no ripped data has been created.
- Hovering the mouse over a job on the [Job List] tab displays various status information for that job.
  Bold job names on the [Job List] tab indicate jobs for which ripped data has been created.

3 **Enter the number of times for executing ripping and printing in [Execution Times].**

- Ripped data will not be created if [Immediate Print] is selected. Ripping and printing will be executed just for the number of times set.

4 **Set the deletion processing for data after printing in Execution Option.**

- [Delete ripped data after print]: When this is selected, ripped data will be deleted after printing if the execution order is set as [RIP and Print] or [Print Only].
- [Delete Job after print]: When this is selected, the job will be deleted after printing if the execution order is set as [Immediate Print], [RIP and Print], or [Print Only].

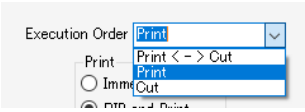
5 **Click [Start].**

- The processing specified for [Print] starts.

● Printing and cutting (with compatible models)

1 **Select a job in the [Job List].**

2 **Select the required items from the [Execution Order] list.**



- [Print <-> Cut]: Prints and cuts.
- [Print]: Only printing is performed.
- [Cut]: Only cutting is performed.

3 **Select the items in [Print].**

- The item details are the same as for ☞ "Rip and print"(P. 101).

4 **Enter the number of times for executing printing and cutting in [Execution Times].**

5 **Set the deletion processing for data after printing.**

- The item details are the same as for ☞ "Rip and print"(P. 101).

6 **Click [Start].**

- Printing and cutting starts.

2.2.10 Special plate

Creates a job specifically for a special color ink from the selected job.

Special plate - Functions

[Special plate] allows the following operations.

- Create a special color job
- Create a special color job and combine it with the original job
- Create a special color job automatically when an image is imported

- With RasterLink7, jobs for which [Special plate] is created are referred to as special color jobs.

● Conditions

[Special plate] cannot be set in the following cases.

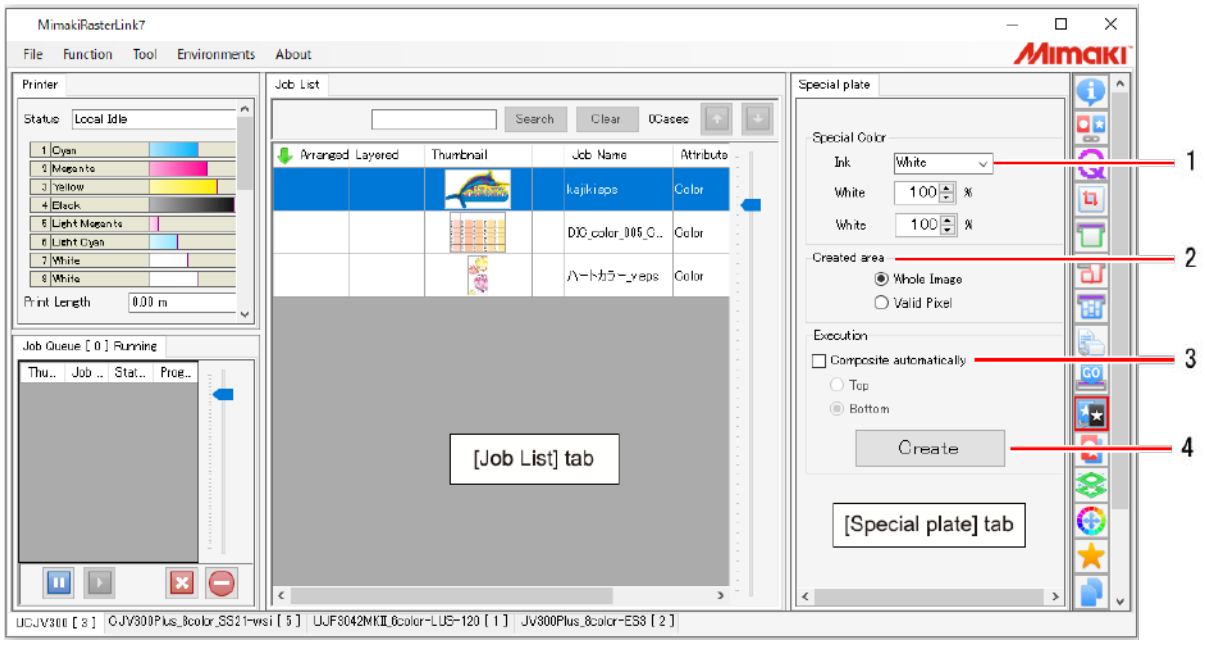
- When a special color inkset has not been set for the printer

[Special plate] cannot be set for jobs with the following settings.
The following settings should be canceled initially when setting [Special plate].

- [Arrange]
- [Tiling]
- [Step & Repeat]
- [Composite]
- [Jig Print]
- Special plate job

Special plate - Screen Layout

● [Special plate] screen



1. [Special Color]

Sets the special color ink.

2. [Special Color Print Area]

Sets the area in which the special color ink is output.

3. [Composite automatically]

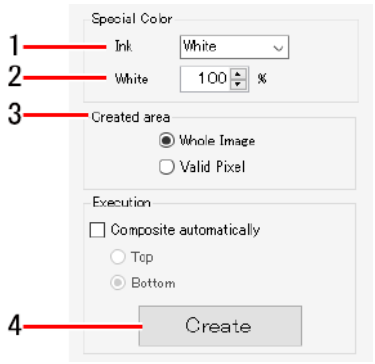
Sets the composition for the special color job and the original job.

4. [Create]

Clicking the button creates a special color job.

Special plate - Operations

● Create a special color job



1 **Select the special color ink from the [Ink] list in Special Color Ink on the [Special plate] tab.**

- The special color inks available will vary depending on the special color inkset in the printer being used.

Important!

- Only one special ink can be selected. More than one special color ink cannot be selected simultaneously.

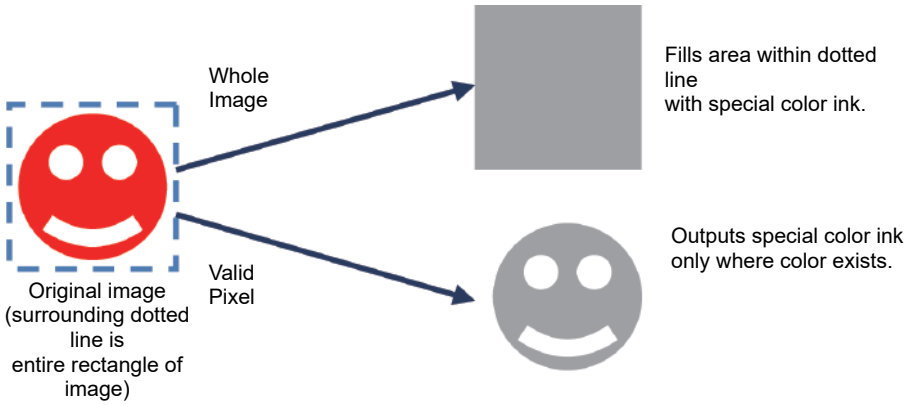
2 **Set the ink density (%).**

- The default value is 100%.

- Special color jobs created using [Special plate] will be replaced by mono color solid special color data ignoring the color density of the original image.
- With [Special plate], the ink density of a special plate job will be the ink density set in [Special Color] at the time of creation or the ink density set in ☞ "Editing the settings for a special color job created using Special plate"(P. 31). The density of the special color ink cannot be varied within a single special color job.
- If you wish to vary the special color ink density within a single special color job, such as when using gradations, create the special color image data, then set the special color ink as described in ☞ "Print a full-color job in monotone"(P. 30).

3 Select [Special Color Print Area].

- [Whole Image]: Prints the entire rectangle of the original image using the special color ink.
- [Valid Pixel]: Outputs special color ink only where there is color in the original image.



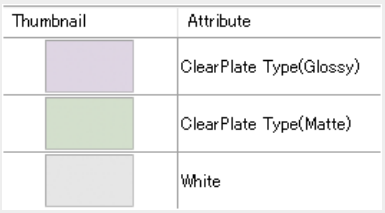
- To fill the interior of the figure completely with special color ink as shown below, create special color data using design software, then set the special color ink as described in "Print a full-color job in monotone"(P. 30).

- When you use Adobe Illustrator for the design software, special color data like that described above can be created easily using RasterLinkTools. For more information, refer to "A special color is printed over the entire image."(P. 247).
- In cases where the image data includes objects with a density of less than 1 %, these may be included in the printed output recognized as valid pixels even if they do not appear to be recognized as valid pixels in the preview.
  In order for such objects to be recognized as valid pixels in the preview, the object density should be set to at least 1 % in the design software.

4 Click [Create] in [Execute].

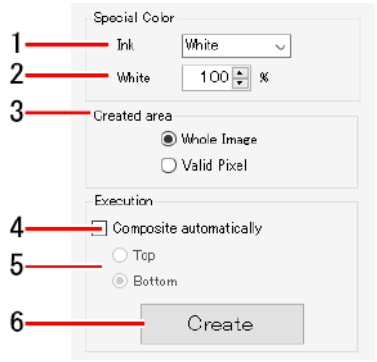
- A special color job is created and added to the job list.

- Depending on the ink and UV mode set for a special color job, colors similar to those shown below will be displayed in [Thumbnail] on the [Job List] tab. For more information on UV mode settings, refer to "Edit UV settings"(P. 32)



- "Clear (UV Mode)" is displayed in [Attribute] for special color jobs created by selecting "Clear".

● Create a special color job and combine it with the original job



1 **Select the special color ink from the [Ink] list in Special Color Ink on the [Special plate] tab.**

2 **Set the ink density (%).**

3 **Select [Special Color Print Area].**

4 **Select the [Composite automatically] check box.**

5 **Select the [Execute] items.**
[Top]: Combines by laying the special color job over the original job.
[Bottom]: Combines by laying the special color job under the original job.

6 **Click [Create].**

- The composition of composite jobs can be canceled using "Composite" ☞ "Composite"(P. 108).
- When creating multiple special color jobs and combining them (such as when creating white and clear special color jobs from a single job), special plates cannot be created from composite jobs, so unselect the [Composite automatically] check box, create the special color jobs, then use "Composite" ☞ "Composite"(P. 108).

2.2.11 Composite

Combines multiple jobs on top of each other.

Composite - Functions

[Composite] allows the following operations.

- Select a composite job and set the output sequence
- Compose by reversing jobs
- Set the priority policy (with flatbed printers)
- Overlay print by pulling back the media after printing*1

*1. Not available with all models.

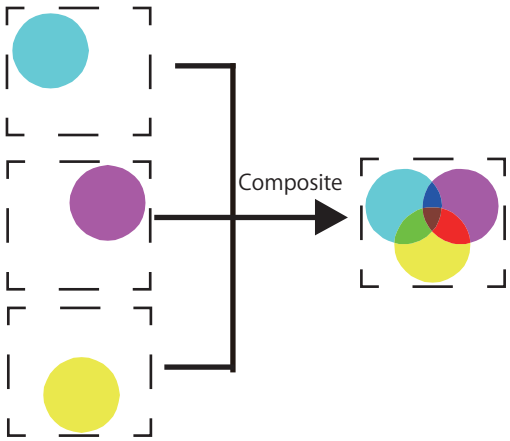
● Conditions

The job overlay method will vary depending on the individual printer model and job attributes.

● With roll-to-roll printers

- **Combining color jobs**

All jobs are overlaid and printed at the same time.



- **Combining special color jobs with color jobs**

The printing methods that can be set will vary depending on the particular roll-to-roll printer model.

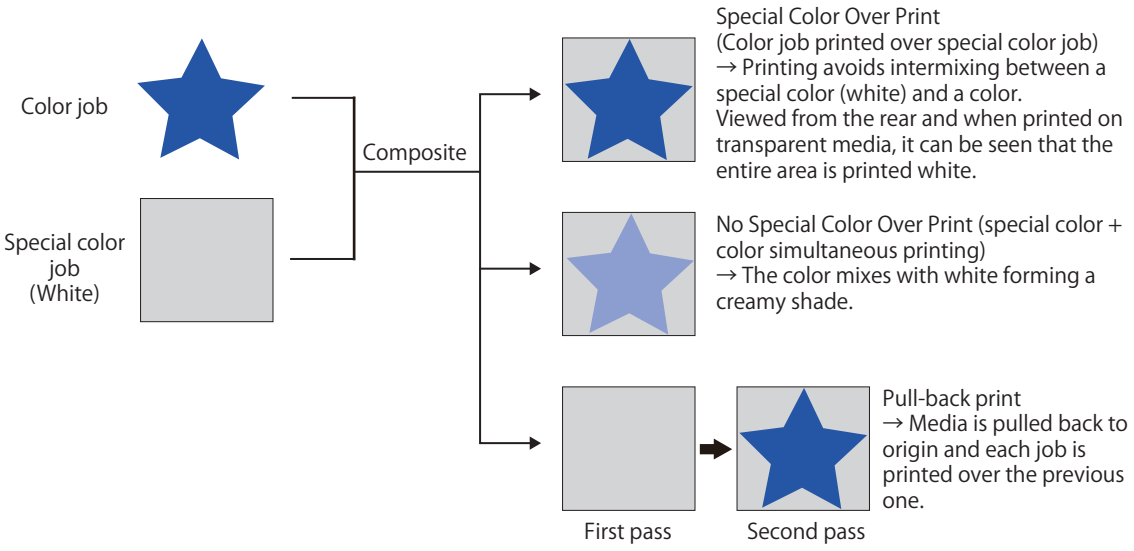
The following printing methods can be used when combining special color jobs with color jobs.

Model	Special Color Over Print	No Special Color Over Print	Pull-back print
JV300 Plus	Prints using the following two methods. • 2-layer printing of the colors and special color simultaneously • 3-layer printing in the sequence colors ⇒ special color ⇒ colors	Creates image data combining colors and special color, then prints simultaneously.	Not supported.
JV300	Prints using the following two methods. • 2-layer printing of the colors and special color simultaneously • 3-layer printing of the colors and special color in any sequence		Not supported.
CJV300 CJV150 CJV300 Plus	Prints using the following two methods. • 2-layer printing of the colors and special color simultaneously • 3-layer printing of the colors and special color in any sequence		Pulls back the media after one job has been printed, then prints the remaining job(s) on top of the first job.
UCJV300	Prints using the following four methods. • 2-layer printing of the colors and special color simultaneously • Print three layers in the following order Color ⇒ Special color ⇒ Color Special color ⇒ Color ⇒ Special color • Prints four layers in the sequence(*) colors ⇒ shade ⇒ special color ⇒ colors colors ⇒ special color ⇒ shade ⇒ colors		With the UJCV300, this is used in 3-layer printing including clear (glossy). For more information, refer to the "UCJV300 Clear Ink Printing Guide".

	• 5-layer printing in the sequence colors ⇒ special color ⇒ shade ⇒ special color ⇒ colors(*)		
UJV100	Print two layers of color and spot color at the same time	Not supported.	Not supported.
Roll-to-roll printers other than those above	Not supported.	Creates image data combining colors and special color, then prints simultaneously.	Not supported.

(*)For more information, refer to the separate "Multi-layer Printing Guide".

Example: Combining a color job with a special color (white) job



● With a flatbed printer

With flatbed printers, the printing method will vary depending on the "Priority policy" set with the [Composite] function ☞ "Set the priority policy (with flatbed printers)"(P. 117).

- If jobs with different device profiles are combined using [Speed], they will be combined using the same conditions as for [Quality].
- If jobs with different resolutions are combined using [Speed], they will be combined using the same conditions as for [Quality].

- **Combining color jobs**

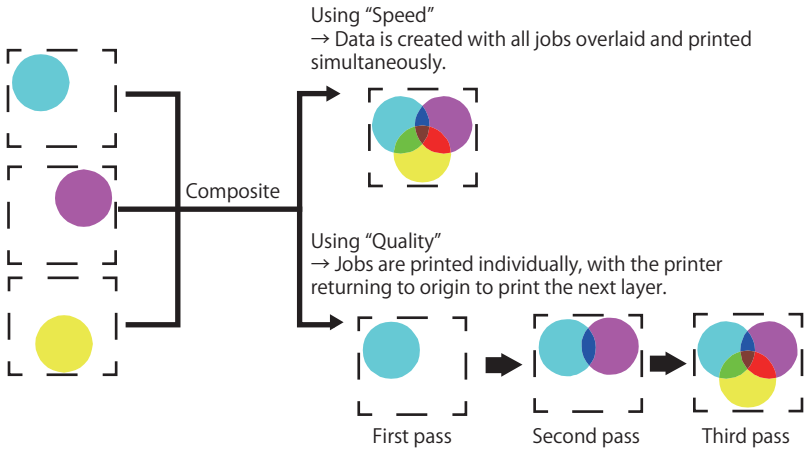
  The following printing methods can be used when combining color jobs.

  With [Priority policy] set to [Speed]

  Data is created with all jobs overlaid and then printed at the same time.

  With [Priority policy] set to [Quality]

  Jobs are printed individually. Once printing is completed, the printer returns to the origin and prints the next job over the previously printed job.



- **Combining special color jobs with color jobs**

  The following printing methods can be used when combining special color jobs with color jobs.

  With [Priority policy] set to [Speed]

  The Special Color Over Print function is used to print two color job and special color job layers simultaneously.

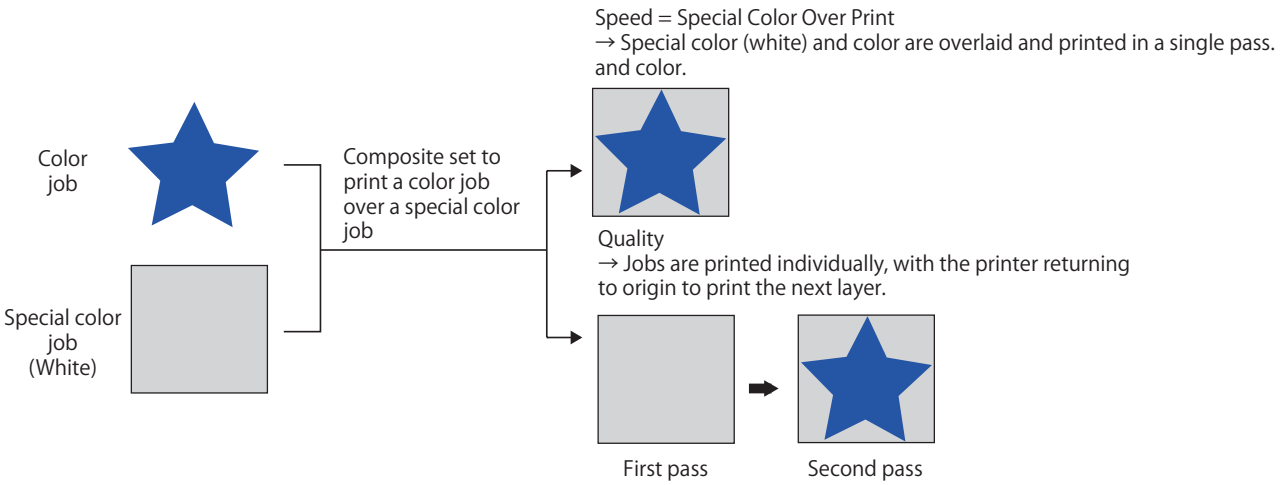
  With [Priority policy] set to [Quality]

  Jobs are printed individually. Once printing is completed, the printer returns to the origin and prints the next job over the previously printed job.

Important!

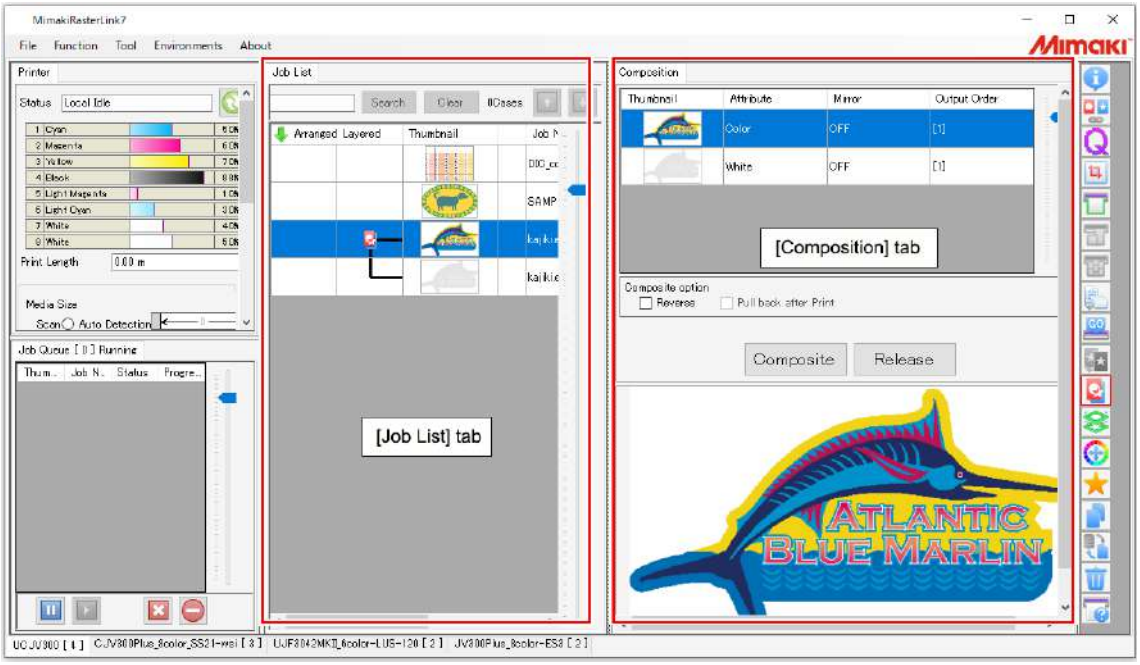
- When color jobs and special color jobs are combined when using a flatbed printer, these will always be printed in layers. Color and special color jobs cannot be printed simultaneously as with roll-to-roll printers.
- If using an inkset containing light cyan and light magenta, printing will use the same method as for [Quality] even when [Speed] is selected. (This applies only when special color ink and light ink are arranged inline. Perform a test print to check.)
- If the special color job is clear, the printing method will vary depending on the "UV Mode" settings. For more information, refer to Properties ☞ P. 33.

Example: Combining a color job with a special color (white) job



Composite - Screen Layout

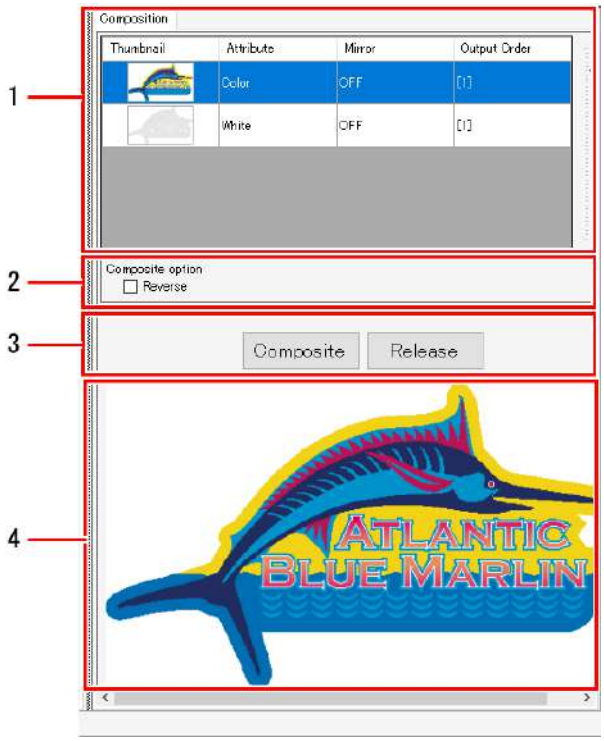
● [Composite] screen



● [Job List] tab

Displays the composed job.

● [Composite] tab



1. Composite list

Displays the multiple jobs included in the composite.

2. [Composite option]

Sets the composition method.

3. [Composite]/[Release]

Creates or cancels a composite job.

4. Composite preview

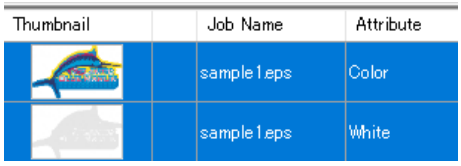
Displays the preview showing the composite job.

Composite - Operations

● Select a composite job and set the output sequence

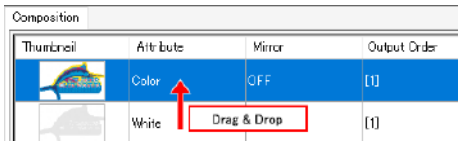
1 **Select the multiple jobs to be composed and printed in the [Job List] window.**

- The selected jobs are displayed in the composite list on the [Composite] tab.



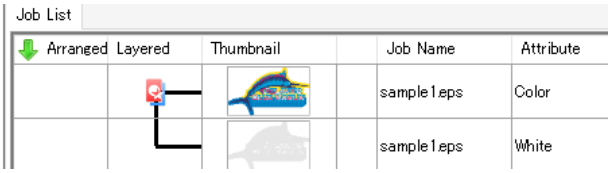
2 **The jobs displayed in the composite list on the [Composite] tab can be reordered by dragging and dropping.**

- The jobs will be printed in sequence from the bottom of the composite list.



3 **Click [Composite] in [Composite]/[Release] on the [Composite] tab.**

- The [Job List] is refreshed and the selected jobs are linked by lines.



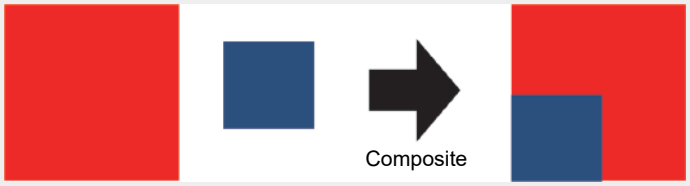
- [Composite] must be clicked again if the job sequence in the composite list is altered after composition.

- With roll-to-roll printers, the job will be printed in the order of the numbers indicated in the [Output Order] column. (With flatbed printers, printing will be in sequence from the bottom.)
  Example: When the special color job (white) output sequence is 1 and the color job output sequence is 2

The color ink will be printed on top of the white.

Important!

- If the jobs differ in size, the bottom left of the largest job will be used as the datum for overlaying.



- If you are creating composite image data using design software, data should be created using one of the following two methods.
  ・ Align the vertical and horizontal size.
  ・ Adjust the position with the bottom left as the origin.

Important!

- When multiple jobs are combined, the settings for the job at the top of the [Job List] are applied to all of the jobs. The following settings will be applied.
  ・ [Scale]
  ・ [Rotation]
  ・ [Mirror]
  ・ [Print Condition]

Important!

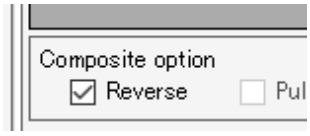
- Do not composite print a job that is set to mono color printing and a job that is created from that The printer does not print correctly.

● Compose by reversing jobs

1 Select a job to be reversed in the composite list.

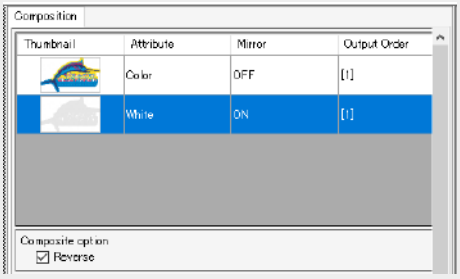
2 Select the [Mirror] check box in [Composite option].

- The selected job is reversed.



- Difference between [Mirror] on the [General Print] screen and [Mirror] on the [Composite] screen
  Setting [Mirror] on the [General Print] screen reverses all composite jobs.
  Setting [Mirror] on the [Composite] screen reverses only the selected job(s).

  Using [Mirror] on the [General Print] screen and on the [Composite] screen with the composite list below will have the following results.



Example 1: Setting [Mirror] as follows
- Job with white attribute enabled on [Composite] screen
- [General Print] screen: OFF

Only the special color job (white) is reversed.

Example 2: Setting [Mirror] as follows
- Job with white attribute enabled on [Composite] screen
- [General Print] screen: ON

Reversed version of Example 1, i.e. only the color job is reversed.

- In cases where the printed face is viewed from the opposite side, such as with transparent media, set [Mirror] on the [General Print] screen after composition.

3 Click [Composite].

● Set the priority policy (with flatbed printers)

1 **Set the [Priority policy] items in [Composite option] on the [Composite] tab.**

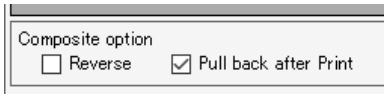
- [Speed]
  Reduces printing time by using the Special Color Over Print function. This is useful when completing the job quickly is more important.
- [Quality]
  Quality takes precedence when jobs are printed individually. This is useful when an attractive finish is more important.

- Jobs are printed one at a time when [Quality] is selected. The printing speed and quality can therefore be adjusted by altering the resolution for each job individually. For example, a special color job (white) for which you wish speed to take priority can be set with low resolution, and a color job for which you wish quality to take priority can be set with high resolution before combining.
  For more information, refer to ☞ "Print Condition"(P. 42).

2 **Click [Composite].**

● Overlay print by pulling back the media (with CJV300, CJV150, and CJV300 Plus.)

1 **Select the [Pull back after Print] check box in [Composite option] on the [Composite] window.**



- Pulls back the media to the origin position after jobs selected from the composite list have been printed simultaneously, then prints the remaining job(s).
- This is useful when you wish to print colors after allowing a special color to dry thoroughly, such as when color jobs are combined with special color jobs.

Important!
- The media is always pulled back between printing and cutting in the case of print & cut jobs.
  The [Pull back after Print] check box cannot be unselected.

2 **Click [Composite].**

● Canceling composition

1 **Select the job(s) for which composition is to be canceled in the [Job List].**

2 **Click [Composite] in the [Function] menu or the Composite function icon ( ).**

3 **Click [Release] on the [Composite] tab.**

- The composition containing the selected jobs is canceled.

2.2.12 Layer

Configures the detailed settings for jobs printed with color and special color ink.

Layer - Functions

[Layer] allows the following operations.

- Set Special Color Over Print*1
- Set Special Color Over Print quality*1
- Adjust the special color position
- Adjust the special color size

*1. Not available with all models.

● Conditions

[Layer] can be used in the following cases.

- When a special color inkset is set

Special Color Over Print can be set when using printers that support Special Color Over Print.

Important! Special Color Over Print is a function that allows special colors (white, silver, primer, clear) to be printed over colors in a single printing process. This can be used in the following cases.

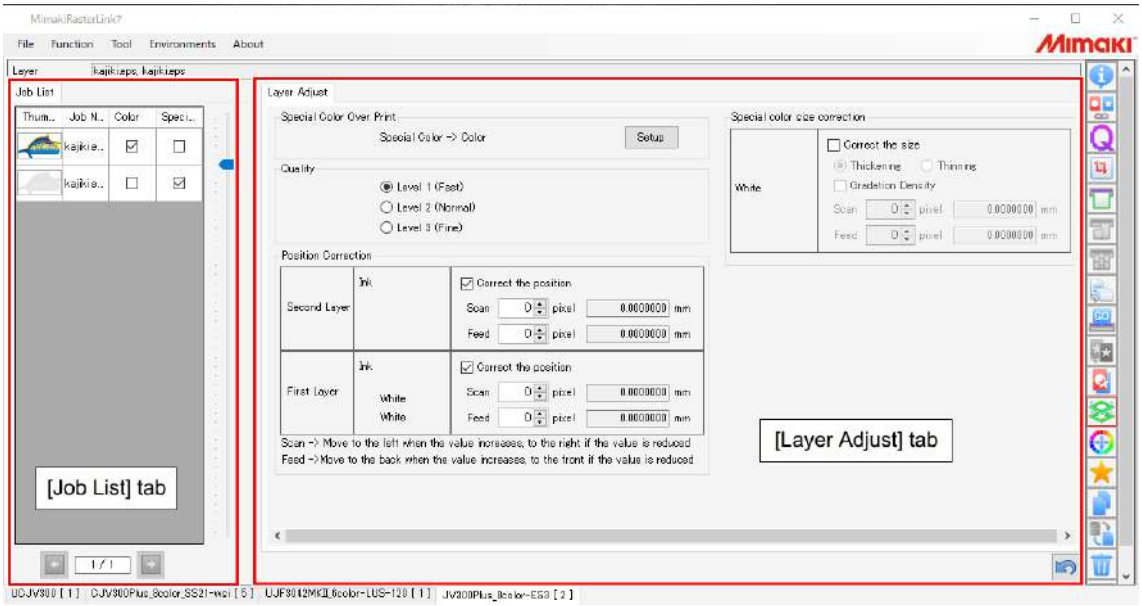
- When special colors and colors are "composed" ☞ "Composite"(P. 108)
- When certain colors in a color image have been replaced by special colors

Models supporting Special Color Over Print

Model	Compatible inks
CJV150	White, silver
CJV300	White, silver
CJV300 Plus	White, silver
JV300	White
JV300 Plus	White
UCJV300	White, clear
UJV100	White, clear
UJF-3042MkII, UJF-3042MkII EX	White, primer, clear
UJF-6042MkII	White, primer, clear
UJF-7151	White, primer, clear
JFX600	White, primer, clear
UJF-7151plusII	White, primer, clear
UJF-3042MkII e, UJF-3042MkII EX e	White, primer, clear
UJF-6042MkII e	White, primer, clear

Layer - Screen Layout

● [Layer] screen



● [Job List] tab

Displays the job to be edited.

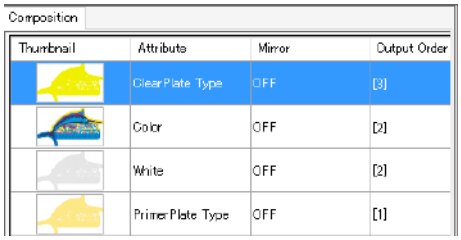
[Layer] is set for each print if the [Composite] function has been set to print divided into multiple passes.

Jobs to be printed simultaneously are displayed.

Clicking the [ ] icons at the bottom of the [Job List] tab lets you switch between jobs.

Example: Setting to print with three passes using the UJF-6042MkII

[Composite] tab on the [Composite] screen



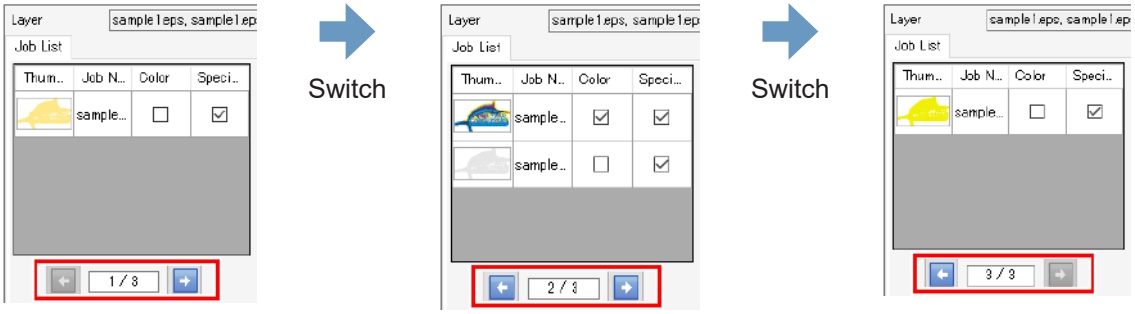
Output order

First pass: Special color job (primer)

Second pass: Special color job (white) and color job

Third pass: Special color job (clear)

[Job List] tab on the [Layer] screen



First pass:
Special color job
(primer)

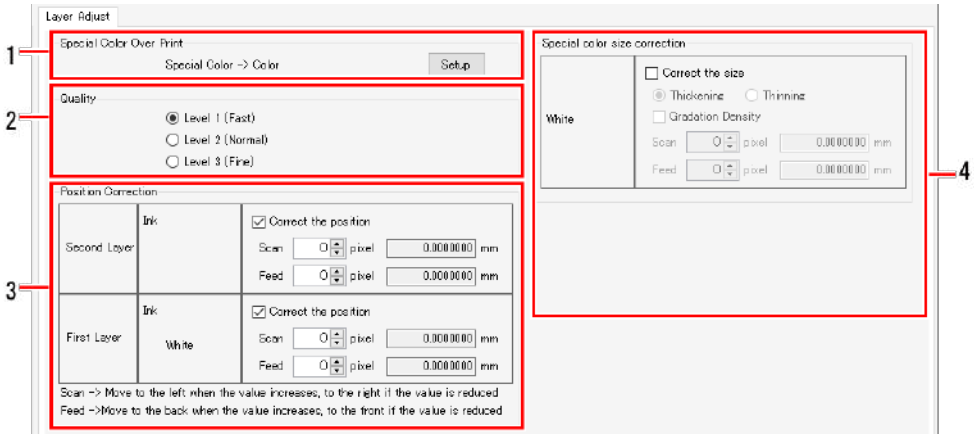
Second pass:
Special color job
(white)
and color job

Third pass:
Special color job
(clear)

● [Layer Adjust] tab

Sets Special Color Over Print and the special colors.

Example: A composed special color job (white) and color job printed using the JV300 Plus



- The details displayed will vary depending on the model, special ink type, and whether or not composition is used.

1. [Special Color Over Print] (with models supporting Special Color Over Print)

Sets Special Color Over Print.

2. [Quality] (with models supporting Special Color Over Print)

Set the quality of Special Color Over Print.

3. [Position Correction]

Adjusts the special color position.

4. [Special color size correction]

Adjusts the special color size.

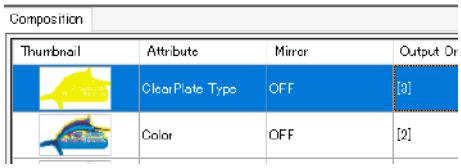
Layer - Operations

● Set Special Color Over Print (with models supporting Special Color Over Print)

1 **Select the job to be set for Special Color Over Print on the [Job List] tab.**

2 **Click [Layer] in the [Function] menu or the [Layer] function icon ( ).**

3 **Select a job in the [Job List].**



4 **Select [Special Color Over Print] on the [Layer Adjust] tab.**

- This allows you to set whether or not to use Special Color Over Print.
- If selected, the printing order can then be selected.

● Set the quality of Special Color Over Print (with models supporting Special Color Over Print)

The quality of Special Color Over Print can be set in the following case.

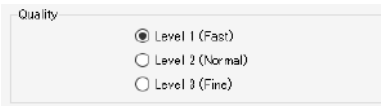
- With models that support quality settings for Special Color Over Print and when Special Color Over Print is set to be used

1 **Select the job to be set for Special Color Over Print on the [Job List] tab.**

2 **Click [Layer] in the [Function] menu or the [Layer] function icon ( ).**

3 **Select [Quality] on the [Layer Adjust] tab.**

- The quality increases from Level 1 to Level 3, but the printing speed will also be reduced.

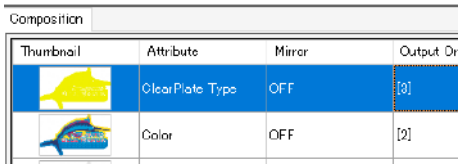


● Adjust the special color position

1 **Select the job to be set for Special Color Over Print on the [Job List] tab.**

2 **Click [Layer] in the [Function] menu or the [Layer] function icon ( ).**

3 **Select the special color job to adjust its position on the [Job List] tab.**

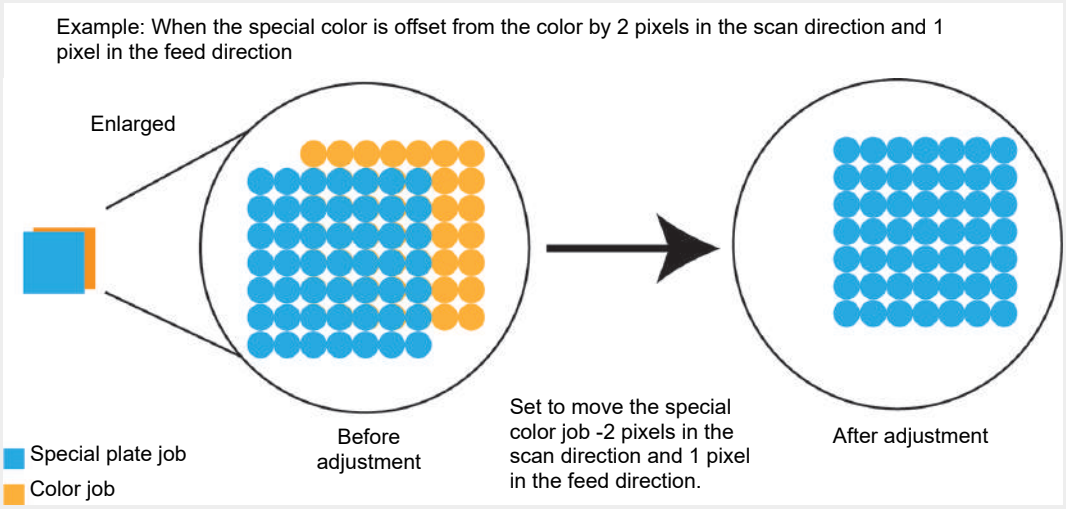


4 **Select the [Correct the position] check box for the layer on which the special color is to be printed in [Position Correction] on the [Layer Adjust] tab.**

5 **Enter the number of pixels (-99 to 99 pixels) for [Width] and [Feed].**

- The special color position is altered for the selected job.

- [Position Correction] should be used when there is a slight offset between special colors (such as white and clear) and colors when printing.

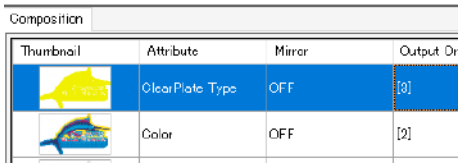


● Adjust the special color size

1 **Select the job to be set for Special Color Over Print on the [Job List] tab.**

2 **Click [Layer] in the [Function] menu or the [Layer] function icon ( ).**

3 **Select a job for which special ink is to be printed on the [Job List] tab.**



4 **Select the [Correct the size] check box for the layer on which the special color ink is to be printed in [Position Correction] on the [Layer Adjust] tab.**

5 **Select the required items.**

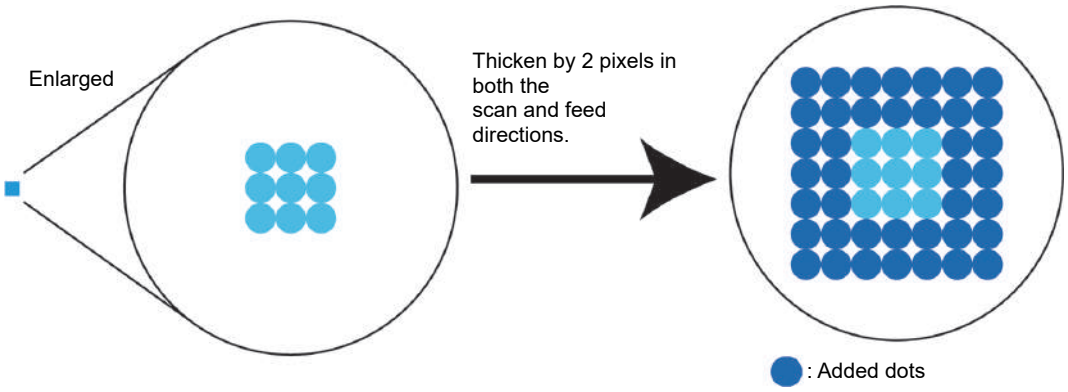
- [Thickening] or [Thinning] can be selected.

6 Enter the number of pixels in [Width] and [Feed].

- The special color size is altered for the selected job.

- The size setting method is the same for all models.
- [Special color size correction] is useful in the following cases.
  - When you wish to print clear ink to cover a color job
  - When you wish to print a special color (white or primer) slightly smaller because the white or primer ink printed as the base will be printed protruding from the color

Example: To thicken the special color job by 2 pixels in both the scan direction and feed direction



2.2.13 Color Replacement

Replaces the job colors with different colors.

- With RasterLink7, replacing specific job colors with different colors is referred to as "color replacement".

Color Replacement - Functions

[Color Replacement] allows the following operations.

- Replace a spot color or CMYK
- Replace a gradation color
- Replace a color using a colorimeter
- Use a color collection
- Select from a color collection
- Register to a color collection

● Conditions

Original image data

Color replacement is possible when using the following original data.

Color mode	CMYK
File format	ps, eps, pdf
Object	Vector data

Important! Colors cannot be replaced in raster data.

If using vector data containing the following effects, correct printing may not be possible even when colors have been replaced.

- Objects created with filter effects such as drop shadow, transparency, and blurring in Adobe Illustrator
- Gradation objects created in Adobe Illustrator with compatible gradation and gradation mesh printing selected

Colors that can be replaced

The following color data can be replaced.

- Spot colors (colors such metallic or fluorescent colors that cannot be represented using CMYK, also referred to as special colors)
  For more information on precautions, refer to ☞ "Precautions when replacing spot colors"(P. 125).
- CMYK (also referred to as process colors)

Important! • Set the density of the original image data as an integer value.

- Gradation
  For more information on precautions, refer to ☞ "Precautions when replacing gradation colors"(P. 128).

Ink after replacement

The following colors can be set as the ink after replacement.

Ink color	Replaced with the printer ink color. The density can be set in a range 0% to 100%.
L*a*b* values	Replaces colors based on L* (lightness), a* (color space coordinates from red to green), and b* (color space coordinates from blue to yellow). L*a*b* values are color space coordinates that are independent of devices.

Important!

- The actual colors printed may differ from the colors set as ink colors and L*a*b* values depending on the conditions and environment such as the printing model and ink.

Linking with color collections

- Color collections are libraries containing color replacement information. For more information, refer to ☞ "Color Collection"(P. 183).
- If a color collection is set to be used, colors will be replaced automatically if the conditions match when an image is imported.

● Precautions when replacing spot colors

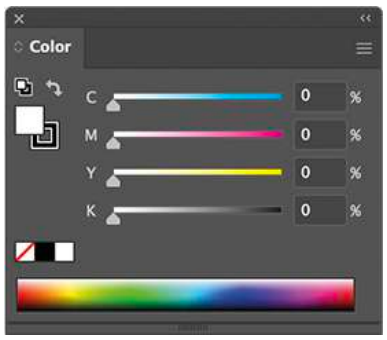
Note the following points when spot colors are set within the original image data and those densities are altered before use.

- With RasterLink7, the ink density after replacement is set based on a spot color density of 100%. In the case of densities other than 100%, the ink density will be automatically calculated and set.
  Example: When a spot color called [Spot] (display color C = 100, M = 0, Y = 0, K = 0) is applied at 100% in some areas and at 50% in other in Adobe Illustrator
  - Replacing the spot color [Spot] with ink color densities C = 0, M = 80, Y = 20, and K = 0 in RasterLink7 prints with ink color densities C = 0, M = 80, Y = 20, and K = 0 for those parts on the original image data where [Spot] is applied at 100%.
    Parts of the original image data where [Spot] is applied at 50% will be printed with ink densities automatically calculated, resulting in C = 0, M = 40, Y = 10, and K = 0.
- Enter the spot color name using single-byte alphanumeric characters. The following problems may result if any other characters are used:
  - Images cannot be imported to RasterLink7.
  - The spot color names may be displayed as garbled characters.
  - They may be output without color replacement even when color replacement has been set.

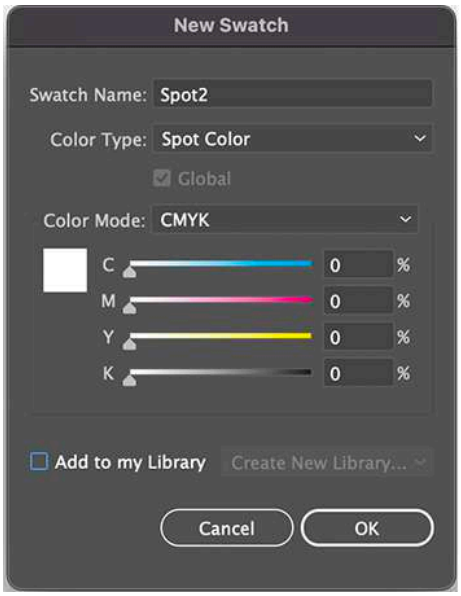
● Precautions when replacing colors in white objects

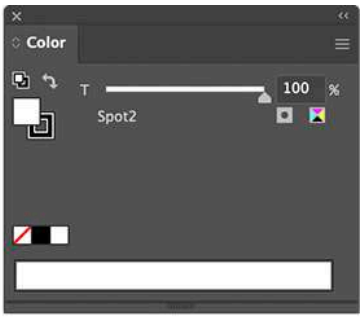
The density must be set to a minimum of 1 % for objects subject to color replacement. Color replacement specifications for white objects such as those below may produce unintended color replacement results:

- Objects with C=0, M=0, Y=0, K=0

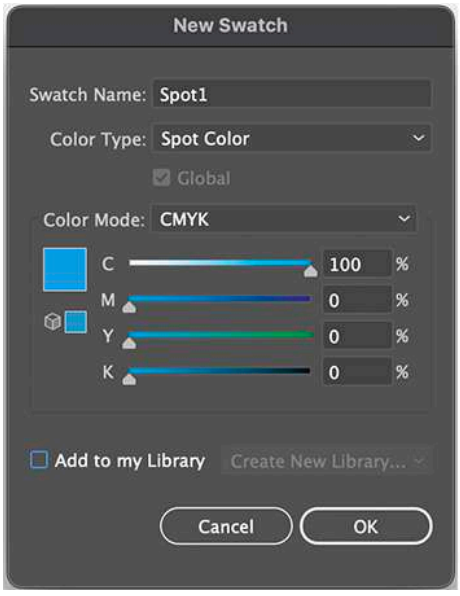


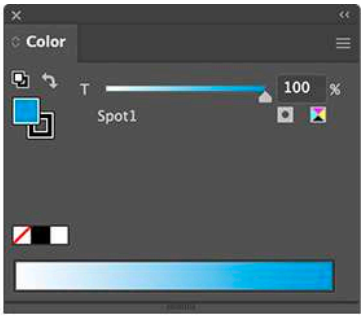
- Object with spot color density set to 0%





- Objects with spot colors of C=0, M=0, Y=0, and K=0





Method for setting spot color in Adobe Illustrator

1 **Select [CMYK Color] for [Document Color Mode] in the Adobe Illustrator [File] menu.**

- This sets the image data color mode to [CMYK].

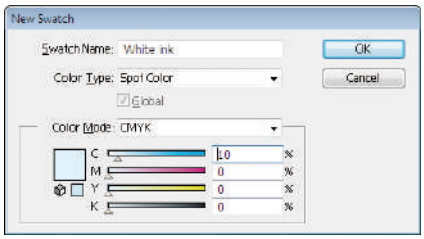
2 **Select [Swatch] in the [Window] menu.**

- The [Swatch] window appears.

3 **Click the icon at the top right of the window, then select [New Swatch] in the menu displayed.**

- The [New Swatch] window opens.

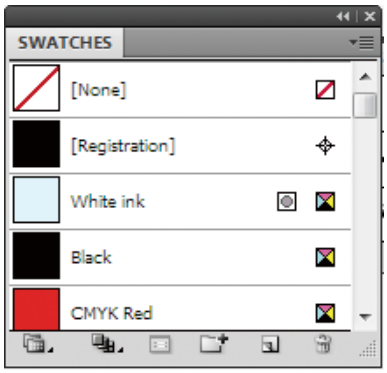
4 **Configure the following settings.**



[Name]	:	Enter the spot color name.
[Color Type]	:	Select [Special Color].
[Color Mode]	:	Select [CMYK].
[Color]	:	Set the display color. Printing uses this color if color replacement is not used.

5 **Click [OK].**

- The spot color is registered in the list on the [Swatch] window.



6 **Create an object.**

7 **Select the object.**

8 **Select [Line] or [Paint] on the [Color] window.**

9 **Select a registered spot color on the [Swatch] window.**

- The spot color is applied to the object.

10 **Save the data in a format allowing it to be imported into RasterLink7.**

● Precautions when replacing gradation colors

Color replacement is possible only with the following four types of gradation.

Set the gradation within the range defined by the maximum and minimum densities.

Type	Maximum density (%)				Minimum density (%)			
	C	M	Y	K	C	M	Y	K
Cyan	100	1	1	1	0	1	1	1
Magenta	1	100	1	1	1	0	1	1
Yellow	1	1	100	1	1	1	0	1
Black	1	1	1	100	1	1	1	0

- Color replacement is not possible if a midpoint has been set and the color has been changed between the maximum and minimum densities of a gradation.
- Color replacement may not be performed correctly on gradations that include a large number of clipping passes.
- Illustrations containing the same colors as included in the gradation will also be color replaced.

  Example: Maximum density C = 100, M = 1, Y = 1, K = 1
  Minimum density C = 0, M = 1, Y = 1, K = 1

  If the data includes an illustration with C = 50, M = 1, Y = 1, and K = 1, the illustration (vector data) color will also be replaced.
- Depending on the original image data, colors may not necessarily be correctly replaced even if gradation replacement settings are enabled on the [Color Replacement] screen.
  Always make a reduced-size print to confirm that color replacement has been performed correctly.

For more information on original image data conditions that allow color replacement, also refer to ☞ "Conditions"(P. 124) in Color Replacement.

Method for setting gradations in Adobe Illustrator

1 **Select [CMYK Color] for [Document Color Mode] in the Adobe Illustrator [File] menu.**

- This sets the image data color mode to CMYK.

2 **Create an object.**

3 **Select the object.**

4 **Select [Gradation] in the [Illustration] menu.**

- The [Gradation] window appears.

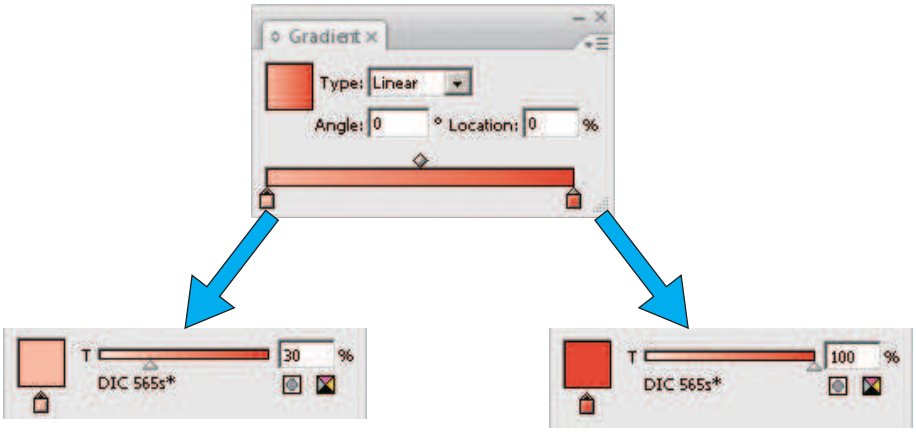
5 **Set the maximum and minimum density.**

6 **Save the data in a format allowing it to be imported into RasterLink7.**

● Color replacement of a spot color used in a gradation

Color replacement of a spot color used in a gradation must satisfy either of the following conditions:

1. A PDF file
2. An image file created in Adobe Illustrator with [Compatible Gradation and Gradient Mesh Printing] disabled in the [Print] menu or the EPS options.

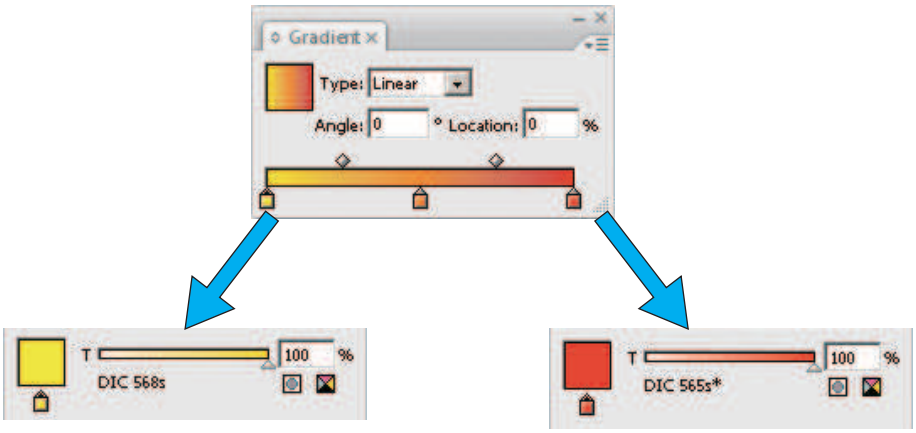


● If different spot colors are specified in a gradation

Color replacement may not be possible if multiple spot colors are specified for a single gradation object in an EPS file.

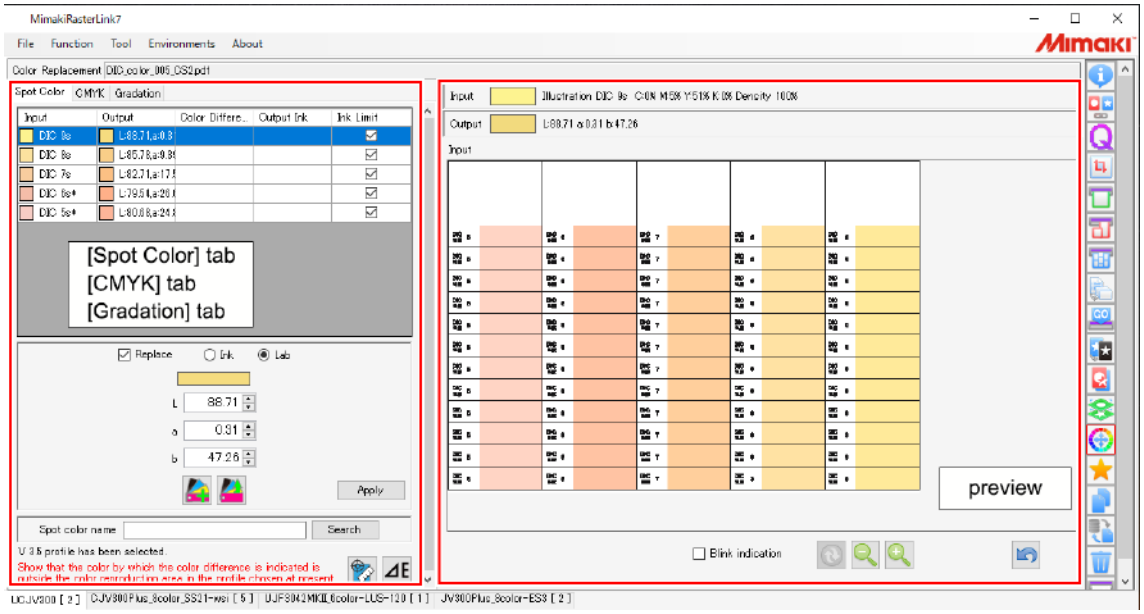
Try after resaving as a PDF file.

Important! • Operation is not guaranteed even for PDF files.

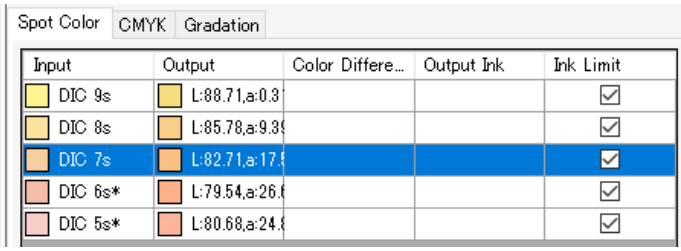


Color Replacement - Screen Layout

● [Color Replacement] screen



● [Spot Color] tab



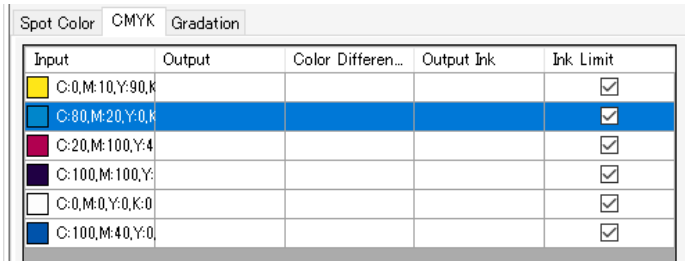
[Input]: Displays the spot color name and preview color.

[Output]: Displays the color after replacement and the simulated printed color.

[Ink Limit]: Selecting this applies the ink limit inside the device profile.

- If a v3.5 or later device profile has been selected, the following information can be displayed by clicking the [ΔE] icon.
  Color difference: Displays the color difference calculated from the following two L*a*b* values.
  (1) Output L*a*b* values
  (2) L*a*b* values calculated from the device profile selected from the [Print Condition] screen.
- Note, however, that the color difference will not be displayed when the output L*a*b* values are within the color reproduction range of the selected device profile.
  The ink for output will also be displayed if a L*a*b* values are set in [Output Ink] [Output].

● [CMYK] tab



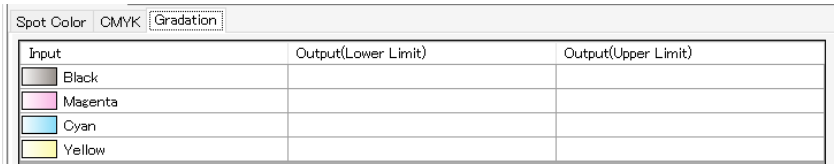
[Input]: Displays the CMYK component values and preview colors.

[Output]: Displays the color after replacement and the simulated printed color.

[Ink Limit]: Selecting this applies the ink limit inside the device profile.

- If a v3.5 or later device profile has been selected, similar information to the [Spot Color] tab can be displayed by clicking the [ΔE] icon.

● [Gradation] tab



[Input]: Displays the gradation type. ☞ P. 128

[Output (Lower Limit)]: Displays the lower limit for the gradation after replacement.

[Output (Upper Limit)]: Displays the upper limit for the gradation after replacement.

● Preview

1. Color information

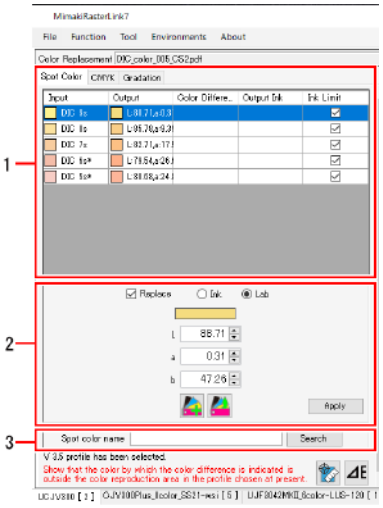
Displays color information for the location clicked on the preview.
[Input]: Displays information on the object, color mode, and original image data color.
[Output]: Displays the color after replacement.

2. [Display selected color in negative]

Selecting this check box inverts the color of parts selected in the Input/output color list on the [Spot Color] tab, [CMYK] tab, or [Gradation] tab.

- If there are locations where color replacement was not possible, click the corresponding locations on the preview. This allows you to check whether or not replacement is possible from the [Input] information.

● [Spot Color] tab, [CMYK] tab, [Gradation] tab



1. Input/output color list

Displays the color information for the original image data. Switching between the tabs switches to the list corresponding to the respective color type that can be replaced.

2. Ink after replacement

Sets the color after replacement.

3. [Spot color name] search

Searches for the spot color name displayed in the Input/output color list.

Color Replacement - Operations

● Replace a spot color or CMYK

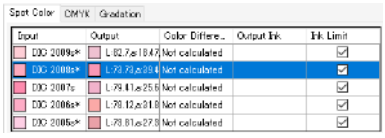
Important! • For more information on original image data settings, refer to ☞ "Precautions when replacing spot colors"(P. 125).

1 **Select the job for color replacement on the [Job List] tab.**

2 **Click [Color Replacement] in the [Function] menu or the [Color Replacement] function icon ( ).**

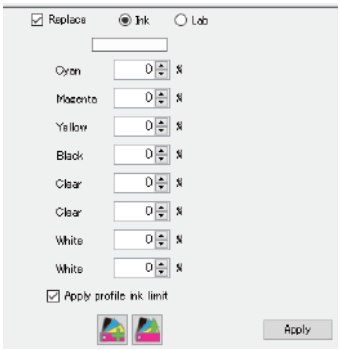
3 **Select the [Spot Color] tab or [CMYK] tab on the [Color Replacement] screen.**

- The spot color or CMYK process colors used in the original image data are displayed.



4 **Select the spot color or CMYK process color you wish to replace from the list.**

5 **Select the [Replace] check box for Ink after replacement.**



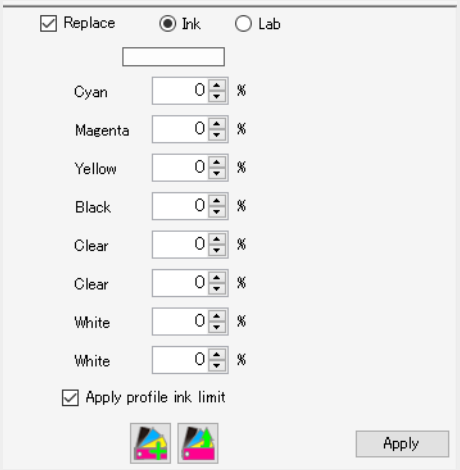
6 **Select [Ink] or [Lab].**

7 Sets the color after replacement.

- Set the percentage if [Ink] is selected, and set the L*a*b* values if [Lab] is selected.

About [Apply profile ink limit]

- This is displayed when [Ink] is selected.
- Enabling this applies the device profile ink limit.



- The setting is automatically converted to a lower value to minimize ink overflowing when printing. (Even if set to 100%, a lower value is used for printing.)
- When not selected, printing uses the color component values as set, but this increases the possibility of printing defects such as bleeding due to ink overflowing. Where possible, this setting should normally be selected.
- It is automatically enabled if the special color inkset uses three or more slots.

8 Click [Apply].

Important!

- If color replacement is performed using color ink and special color ink at the same time, printing will be as follows depending on the printer and layer settings ☞ "Layer - Functions"(P. 118).

- For Roll to Roll printers that support Special Color Over Print (Combining special color jobs with color jobs)
  The results will differ with printers supporting Special Color Over Print, depending on the Special Color Over Print settings.
  Special Color Over Print not used: The special color and color will be printed simultaneously. The special color ink and color ink will appear to intermix.
  Color ⇒ Special color: The color ink will be printed first, then overprinted with the special color.
  Special color ⇒ Color: The special color ink will be printed first, then overprinted with the color.

- For other Roll to Roll printers
  The special color and color will be printed simultaneously. The special color ink and color ink will appear to intermix.

- With flatbed printers
  The results will differ depending on the Special Color Over Print settings.
  Color ⇒ Special color: The color ink will be printed first, then overprinted with the special color.
  Special color ⇒ Color: The special color ink will be printed first, then overprinted with the color.

● Replace a gradation color

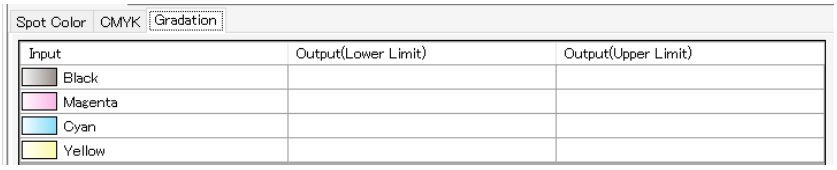
Important! • For more information on original image data settings, refer to ☞ "Precautions when replacing gradation colors"(P. 128) and ☞ "Precautions when replacing spot colors"(P. 125).

1 **Select the job for color replacement on the [Job List] tab.**

2 **Click [Color Replacement] in the [Function] menu or the [Color Replacement] function icon ( ).**

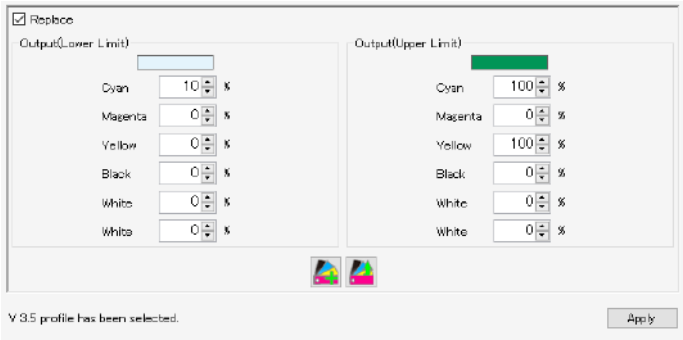
3 **Select the [Gradation] tab on the [Color Replacement] screen.**

- The gradations used in the original image data are displayed.



4 **Select the gradation you wish to replace with a different color.**

5 **Select the [Replace] check box for Ink after replacement.**



6 **[Output (Lower Limit)]: Sets the minimum density for the gradation after color replacement.**

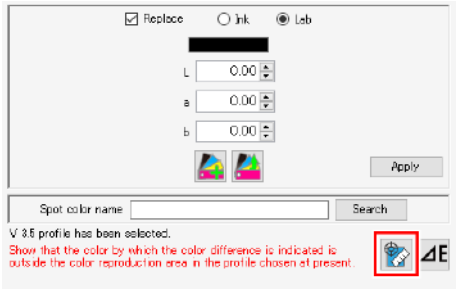
7 **[Output (Upper Limit)]: Sets the maximum density for the gradation after color replacement.**

8 **Click [Apply].**

● Replace a color using a colorimeter

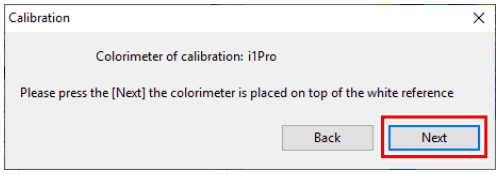
Important! • If a v3.5 or later device profile has been selected on the [Print Condition] screen, a colorimeter can be used.

1 Click the [ ] icon.



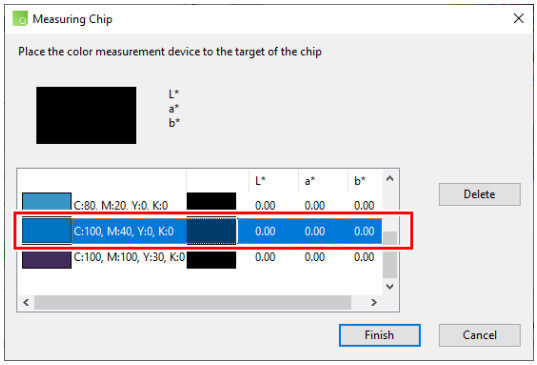
- The [Calibration] dialog appears.

2 Place the colorimeter on the white datum, then click [Next].



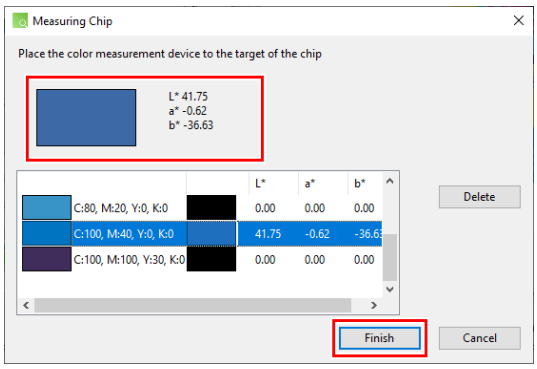
- The Spot Measurement screen appears once white datum measurement is complete.

3 Select the color to be measured from the list.



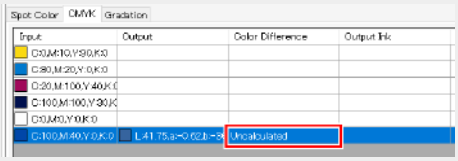
4 Hold the corresponding color against the colorimeter, then click the colorimeter button.

- The color measurement results (L*a*b* values) are displayed.
  To continue and measure other colors, repeat steps (3) and (4).



5 **Click [Back].**

- If [Uncalculated] is displayed in the [Color Difference] column of the Input/output color list, click the [ΔE] icon. The information for the color difference and output ink is calculated and displayed.



● Select from a color collection

Select color replacement information from a color collection and apply it to a job.

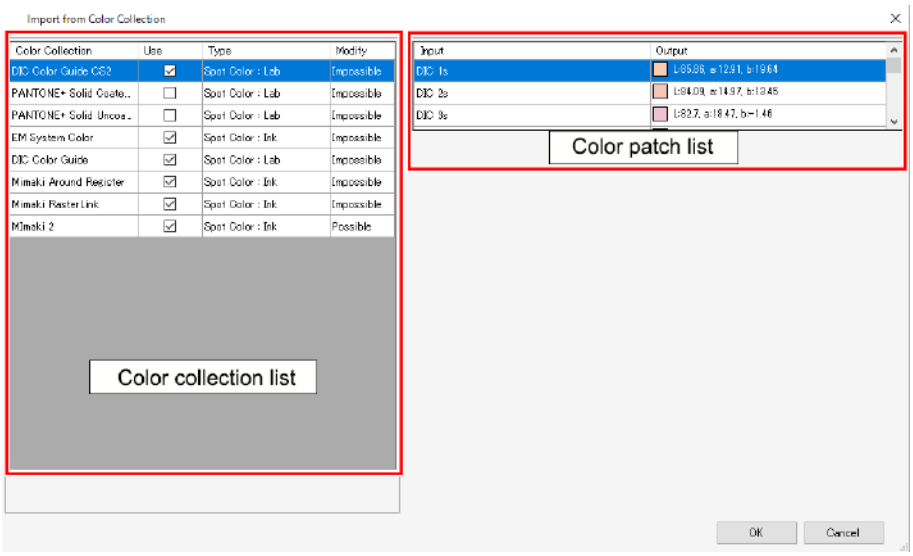
1 **Select the job for color replacement on the [Job List] tab.**

2 **Click [Color Replacement] in the [Function] menu or the [Color Replacement] function icon ( ).**

3 **Select the [Replace] check box for Ink after replacement.**

4 **Click the [ ] icon.**

- The [Import from Color Collection] dialog appears.



5 **Select the color collection to be used from the color collection list.**

6 **Select the color to be set as the color after replacement from the color patch list.**

7 **Click [OK].**

- [Output] is refreshed on the input/output color list.

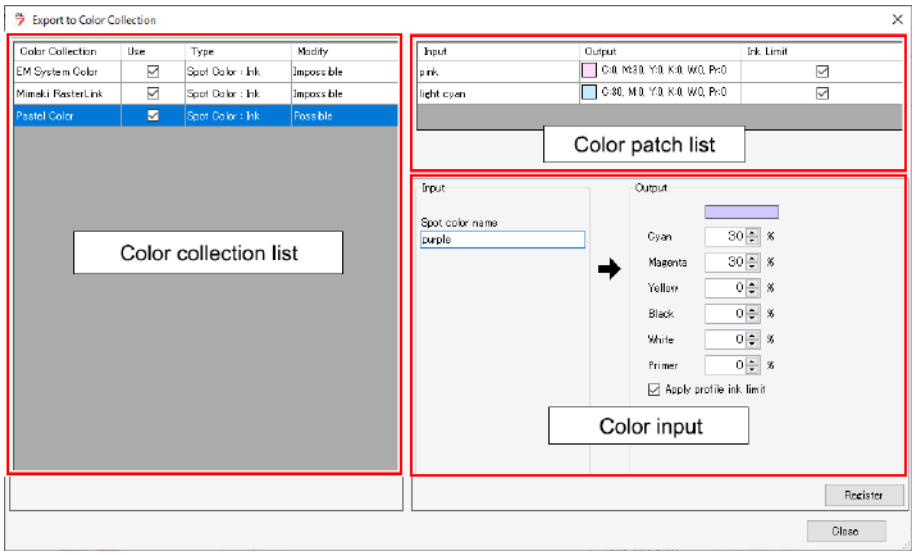
● Register to a color collection

Register color replacement information to a color collection.

1 **Select the colors for which color replacement is set in the input and output lists on the [Color Replacement] screen.**

2 **Click the [ ] icon.**

- The [Export to Color Collection] dialog appears.



3 **Select the color collection to be registered from the color collection list.**

4 **Check that the color information to be registered is set in the color input area.**

5 **Click [Register].**

- The color is registered in the color patch list.

2.2.14 Favorite

Saves and manages the various function settings as a favorite.

Favorite Settings - Functions

RasterLink7 lets you save various settings as favorites. Settings saved (registered) as favorites can be applied to other print data.

The following conditions can be set as favorites for each function.

● [Properties]

- [Job Attribute]
- [Source color], [Ink]
  Displayed when [Job Attribute] is set to [Mono Color].
- [UV Mode]

The UV Mode settings can be set as favorites in the case of the following jobs:

- Jobs for which [Job Attribute] is set to [Full Color] and a CMYK color or spot color has not been replaced with a special color
- Jobs for which [Job Attribute] is set to [Mono Color]

- [UV Mode] (Color Replacement)
  UV mode for registering and using with jobs for which a CMYK color or spot color has been replaced with a special color
- [UV Mode] (Special plate)
  UV mode for registering and using with jobs for which a special plate has been created or special plate jobs created automatically

For more information on how to set and apply, refer to ☞ "Favorite Settings - Operations"(P. 142).

Important! Settings cannot be saved as favorites. Favorite settings cannot be applied with the following jobs:

- Jobs for which [Job Attribute] is set to [Cut Only] on the [Properties] screen
- Jobs for which the original image was in RGB color mode

Important! The following items cannot be saved as favorites:

- [Properties] when [Attribute] in [Job List] is [Color (Glossy)]

● [General Print]

- [Scale]
- [Deskew]
- [Add Label]
- [Rotation]
- [Arrange in the Center]
- [Mirror]
- [Register Mark]

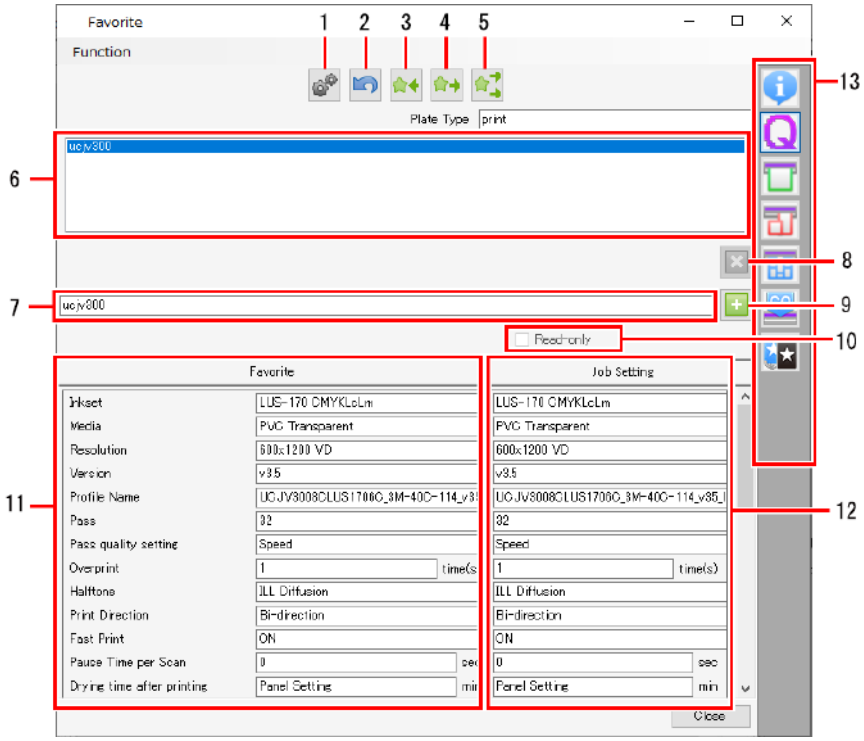
● [Jig Print]

- [Jig name]
- [Mirror]
- [Scale]
- [Rotation]

- **[Tiling]**
  - [Scale]
  - [Overlap]
  - [Add Label]
  - [Rotation]
  - [Tile number]
  - [Mirror]
  - [Cut line]
- **[Step & Repeat]**
  - [Scale]
  - [Arrange in the Center]
  - [Reference Line]
  - [Rotation]
  - [Type]
  - [Mirror]
  - [Add Label]
- **[Special plate]**
  - [Special plate]
  - [Automatic Creation]
  - [Special Color Print Area]
  - [Execute]
- **[Layer]**
  - [Position Correction]
  - [Special color size correction]
- **[Execute]**
  - [Print Count]

Favorite Settings - Screen Layout

● **[Favorite]**



1	Create/delete hot folder	Creates and deletes hot folders and printer drivers.
2	Cancel	Cancels the last saved details.
3	Save	Saves the values displayed in [Job setting] as a favorite.
4	Apply	Applies the value for the selected function displayed in [Favorite] to [Job setting].
5	Apply all	Applies the values for all the functions displayed in [Favorite] to [Job setting].
6	List	Displays the favorites list.
7	Input box	Used to enter a name for a newly added favorite setting.
8	Delete	Deletes a favorite setting.
9	Add new favorite	Adds a new favorite setting.
10	Read-only	Check this box to set the selected favorite setting to read-only. This setting is used to prevent accidentally altering or deleting favorite settings.
11	Favorite	Displays the settings and values for the selected function set for a favorite.
12	Job setting	Displays the settings and values set for the job selected or currently being edited.
13	Function icons	Click on an icon to go to the favorites for the corresponding functions.

Favorite Settings - Operations

● Adding a new favorite setting

1 **Click [Favorite] in the [Function] menu or the Favorite function icon.**

2 **Entering the name for the favorite setting in the input box.**

3 **Click the [ ] icon.**

- The new favorite setting is added to the favorites list.

Important! • If a printer is registered, a favorite is created with the same name as the printer.

● Saving current settings as a favorite

1 **Click a function to be edited from the [Function] menu or the corresponding function icon.**

2 **Configure the various settings.**

3 **Click [Favorite] in the [Function] menu or the Favorite function icon.**

4 **Select the destination favorite from the list.**

- The settings and values for the selected favorite are displayed in [Favorite].

5 **Click the function icon in step 1.**

6 **Click the [ ] icon.**

- The job settings are saved in [Favorite] for the selected favorite.
- The settings and values set for the favorite are displayed.

● Calling up and applying favorite settings

1 **Select the required job.**

2 **Click [Favorite] in the [Function] menu or the Favorite function icon.**

3 **Select the favorite to be applied from the list.**

- The settings and values for the favorite are displayed in [Favorite].

4 **Click the function icon for the settings to be applied.**

- Check that the values in [Favorite] are correct.

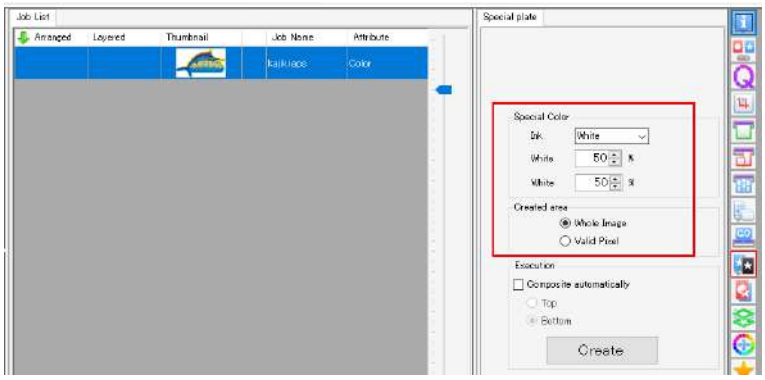
5 **Click the [ ] icon.**

- The settings and values displayed in [Favorite] are applied to [Job setting].

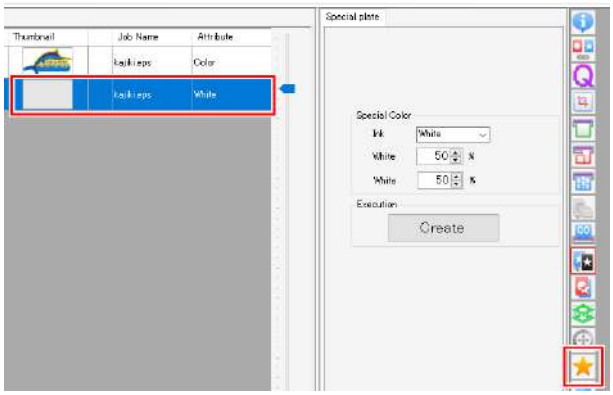
- Click the [ ] icon to apply the contents of the selected favorite to all function settings, not just the function settings currently displayed.

● Create a special color job automatically when an image is imported

1 **Create a special plate using the conditions to be used for automatic plate creation.**

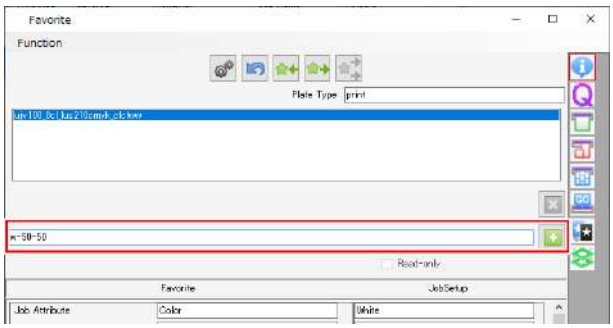


2 **Select the special plate to be created on the [Job List] tab, then click the [Favorite] icon.**

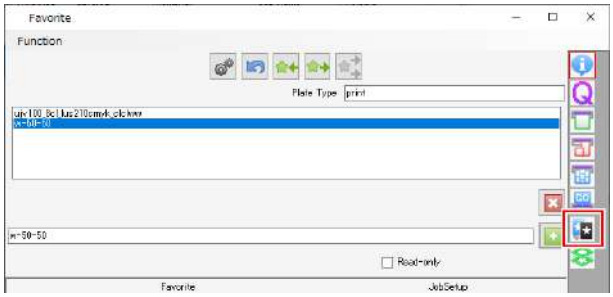


- The [Favorite] screen appears.

3 **Create a new favorite.**

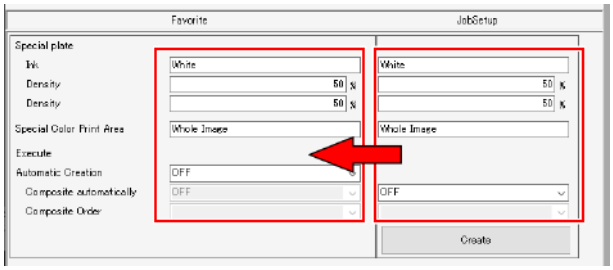


4 **Click the [Special plate] icon on the [Favorite] screen.**

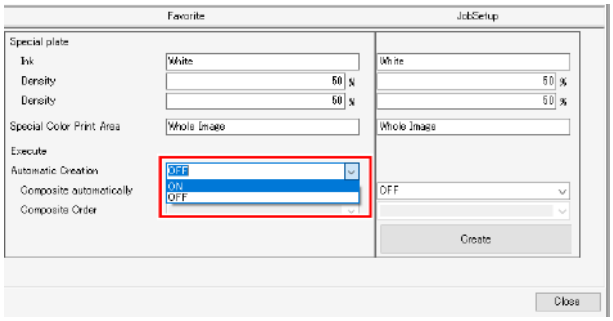


5 **Click the [ ] icon to save the current conditions.**

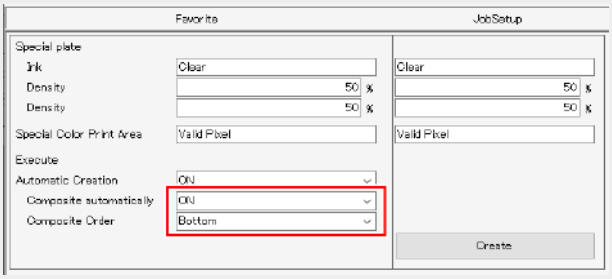
- The conditions ([Special plate] and [Special Color Print Area]) set for the job are saved as a favorite.



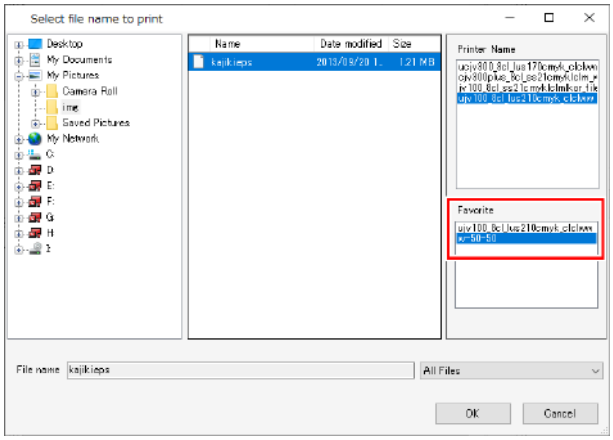
6 **Enable [Automatic Creation].**



- If you wish to combine special plates created, set [Composite automatically] to [ON], then specify [Composition order].



7 **Select the favorite set, then import the image data** ☞ "Favorite"(P. 139).



- A special color job will be created automatically based on the imported image data.

● Deleting favorite settings

1 **Click [Favorite] in the [Function] menu or the Favorite function icon.**

2 **Select the favorite to be deleted from the list.**

3 **Click the [ ] icon.**

- The selected favorite will be deleted.
- Hot folders and printer drivers will be deleted.

Important! • Favorites created when a printer was registered cannot be deleted.

● Creating a hot folder and printer driver from favorite settings

1 **Click [Favorite] in the [Function] menu or the Favorite function icon.**

2 **Click [Create].**

- A hot folder will be created.
- The hot folder will be created in the following location.
  "RasterLink7 installation folder\Hot\Favorite name"

2.2.15 Duplicate

This is useful when you wish create a job similar to another job with only certain settings altered.

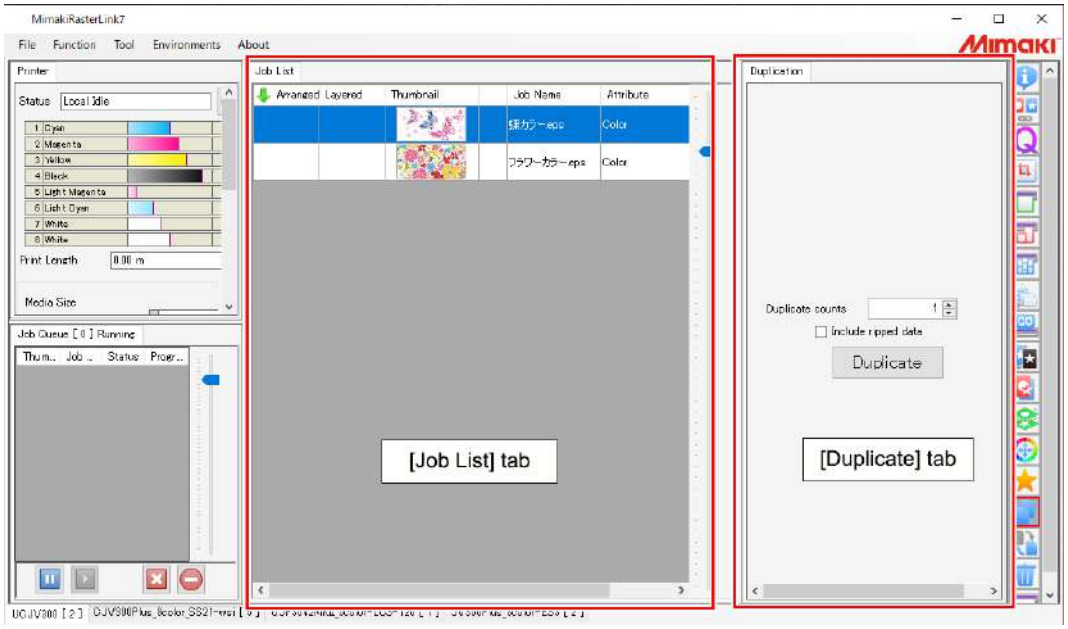
Duplicate - Functions

[Duplicate] allows the following operations.

- Duplicate a job

Duplicate - Screen Layout

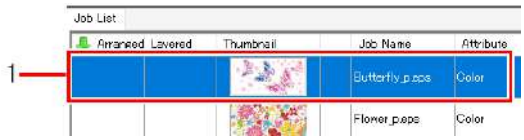
● [Duplicate] screen



Duplicate - Operations

● Duplicate a job

1 **Select a job in the [Job List].**



2 **Enter the number of duplicates for the job in [Duplicate counts] on the [Duplicate] screen.**

3 **Select or deselect the [Include ripped data] check box.**

- Selecting the check box duplicates both the job and ripped data.

4 **Click [Duplicate].**

- The duplicated job(s) will have the same name as the original job.
  The duplicated job(s) should be renamed appropriately on the [Properties] screen. ☞ "Rename a job"(P. 30)

2.2.16 Backup

Creates a job backup file.

Restores a backed-up job from a file.

Backup - Functions

[Backup] allows the following operations.

- Back up jobs
- Restore jobs from backup files

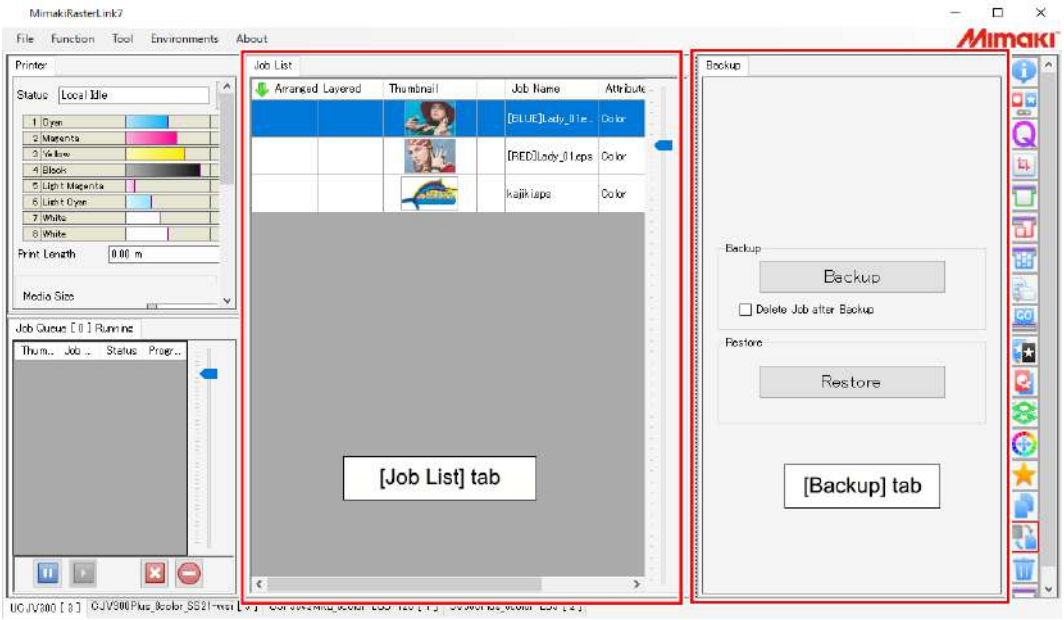
● Conditions

Jobs cannot be restored from backup files in the following cases.

- With backup files for RasterLink6Plus or earlier
- When the printer or special color inkset registered in the backup file is not registered in the restore destination RasterLink7
- When the device profile or input profile specified in the backup file is not installed in the restore destination RasterLink7

Backup - Screen Layout

● [Backup] screen

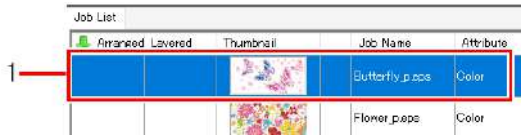


Backup - Operations

● Back up jobs

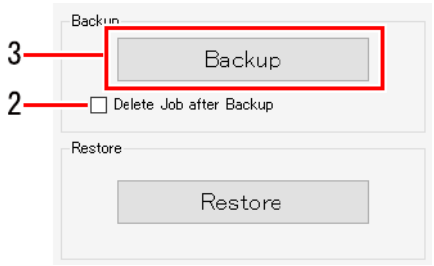
1 **Select a job in the [Job List].**

- If multiple jobs are selected, these will all be saved in a single backup file.



2 **Select or deselect the [Delete Job after Backup] check box on the [Backup] tab.**

- Selecting the check box deletes the job(s) after backing up.



3 **Click [Backup].**

- The [Select file name to save] dialog appears.

4 **Add a suitable name, then click [Save].**

- A backup file is created.

Backup files save the following data.

- Original image data
- Job setting information
- Device profiles
- Input profiles
- Setting files

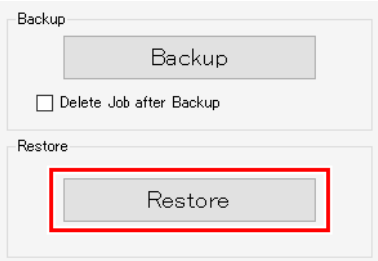
Important!

- Ripped data is not saved in backup files.
- Jobs should be ripped again if they have been restored from a backup file.

● Restore jobs from backup files

1 Click [Restore] on the [Backup] tab.

- The [Select backup file] dialog appears.



2 Select the file to be restored, then click [Open].

- The job is restored.

Important!

- When restoring jobs, an error message may appear indicating that a device profile or input profile is not installed. If this occurs, the device profile and input profile inside the backup file will be saved in "installation folder¥Tmp". Details on the save destination are displayed in the message area.
- In such cases, restore using the following procedure.
  (1) Exit RasterLink7.
  (2) Launch [Profile Manager] from the Windows Start menu.
  (3) Install the necessary device profiles and input profiles.
  (4) Restart RasterLink7.
  (5) Click [Restore] on the [Backup] tab.

- Jobs can also be restored from backup files by selecting [File] - [Restore].

2.2.17 Delete

Deletes a job.

Delete - Functions

[Delete] allows the following operations.

- Delete jobs and ripped data

● Conditions

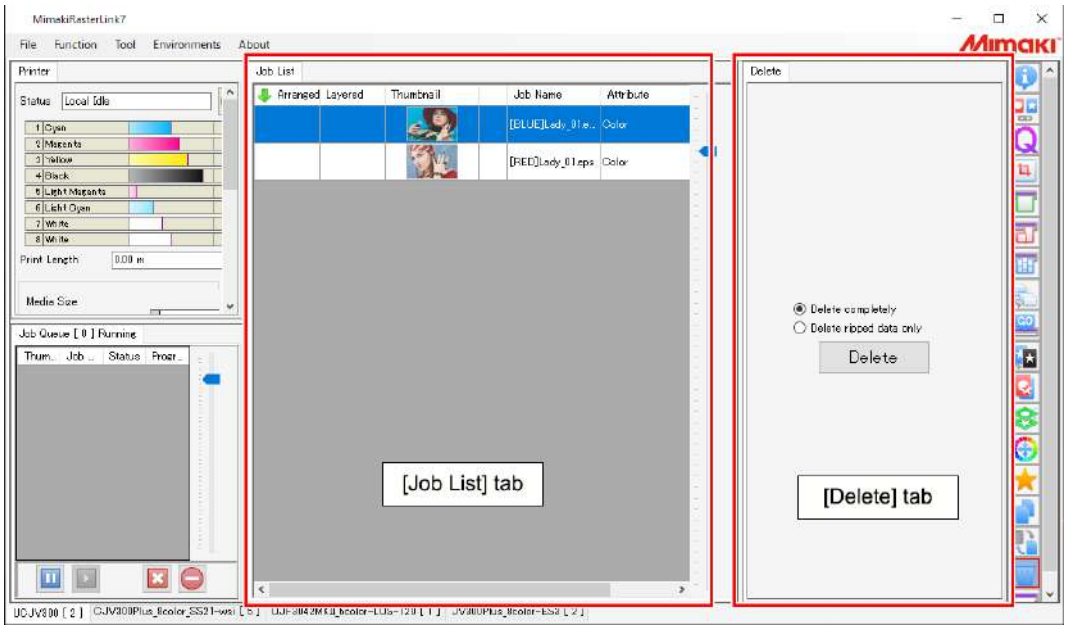
Jobs cannot be deleted in the following cases.

- When only certain jobs in a group of jobs with [Composite] or [Arrange] set are selected

- An entire group of jobs can be deleted if all of the jobs with [Composite] or [Arrange] set are selected.
- Individual jobs can be deleted if [Composite] or [Arrange] is canceled.

Delete - Screen Layout

● [Delete] screen

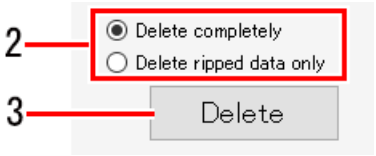


Delete - Operations

● Delete jobs and ripped data

1 **Select a job in the [Job List].**

2 **Select the [Delete] tab items.**



- [Delete completely]: Deletes all of the job information.
- [Delete ripped data only]: Deletes the ripped data for the selected job(s).

3 **Click [Delete].**

- The job and ripped data is deleted.

2.2.18 Jig Print

Positions the job on a jig before printing.

Jig Print - Functions

[Jig Print] allows the following operations.

- Edit a jig template
- Print a jig outline
- Enlarge or reduce a jig print job
- Rotate a jig print job
- Reverse a jig print job
- Copy a jig print job
- Import and export a jig definition file

- Items that fix the print target (such as ballpoint pen or case) are referred to as "jigs".

● Conditions

Compatible models

Flatbed printers

Editing conditions

Jig printing may not be available depending on the job settings.

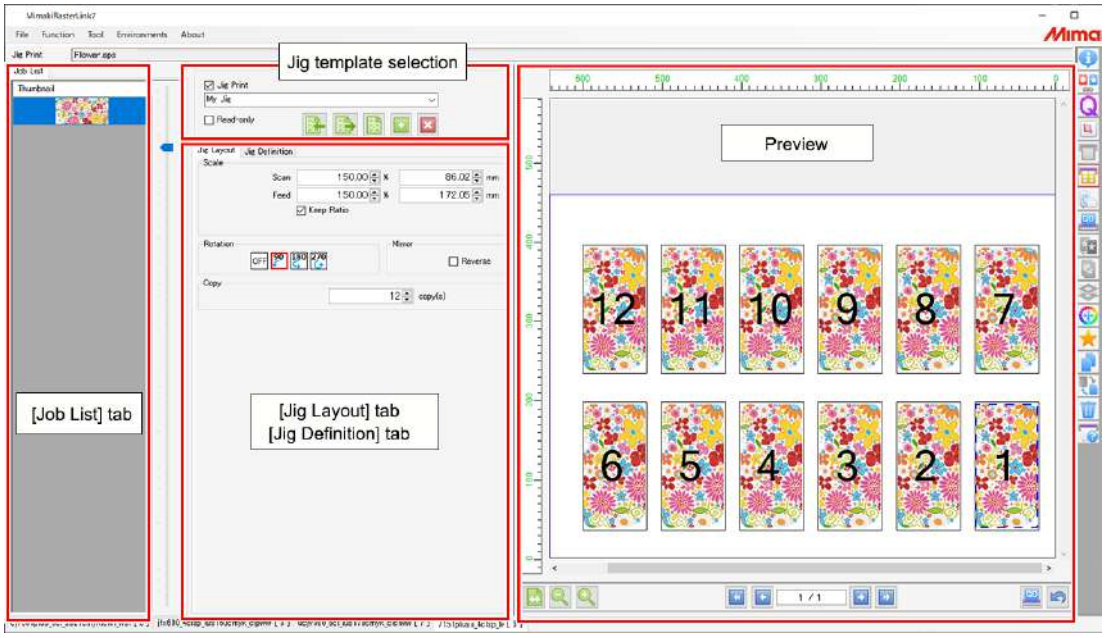
Setting	Jig layout
[Composite]	Yes
[Arrange]	Yes
[Crop]	Yes
[Tiling]	No
[Step & Repeat]	No
[Lock the trimming position]	No
[Kebab Jig Print]	No
Yes: Jig printing possible No: Jig printing not possible	

Placing multiple jobs together in one jig

Configure the [Jig Print] settings after arranging multiple jobs.

Jig Print - Screen Layout

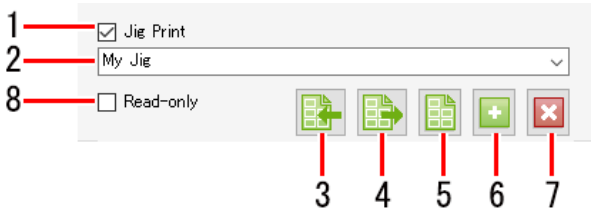
● [Jig Print] screen



● [Job List] tab

Displays the jobs to be edited in [Jig Print].

● Jig template selection



1. [Jig Print]
   Select whether or not to use jig printing.

2. Jig template name
   Select a jig template.

3. Import a jig definition file
   Imports a jig template definition file to RasterLink7.

4. Export a jig definition file
   Saves a jig template definition file as an xml format file.

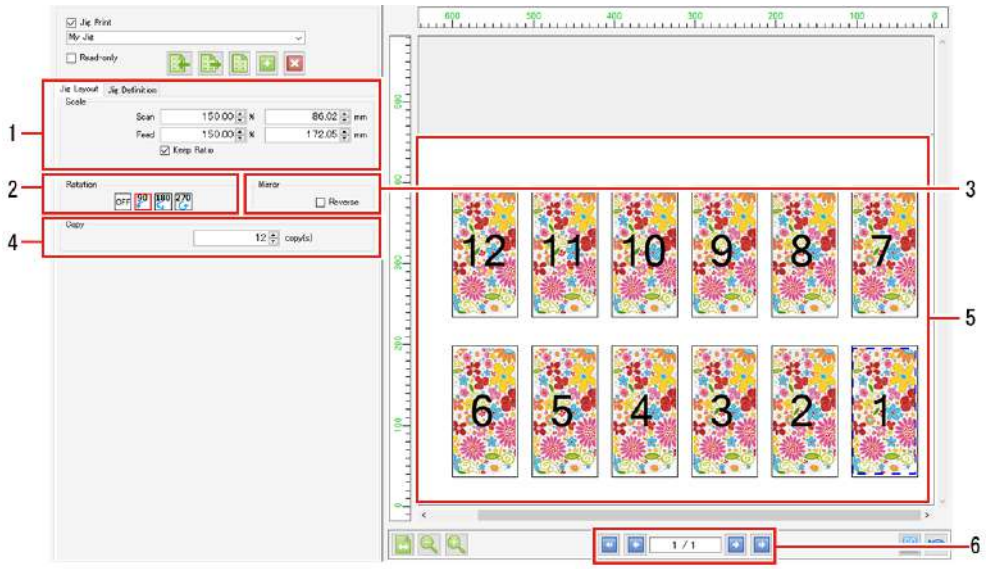
5. Print jig outline
   Prints a jig outline.

6. Add jig template
   Adds a new jig template.

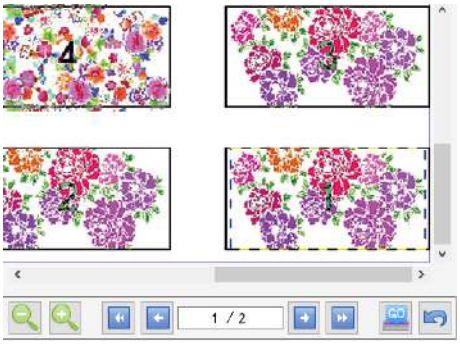
7. Delete jig template
   Deletes a jig template.

8. [Read-only]
   Selects whether jigs are read-only or can be edited.

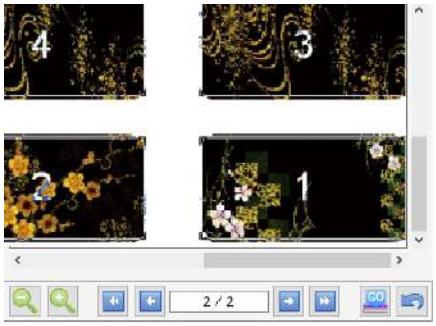
● [Jig Layout] tab, [Jig Definition] tab, Preview



1. [Scale]
   Sets the job size.
2. [Rotation]
   Rotates the job.
3. [Mirror]
   Reverses the job.
4. [Copy]
   Sets the number of job copies.
5. Layout Preview
   Displays the job positioned on the jig template.
6. Panel switching
   Click  to switch the panel.



First panel (1/2)



Next panel (2/2)

● [Jig Definition] tab

1. [Size]

Sets the overall jig size.

2. [Position]

Sets the distance from the print origin position to the lower right of the jig.

3. [Deskew]

Sets the jig skew.
It cannot be used in combination with [Variable Edit].
☞ Deskew (with flatbed printers)

4. [Size]

Sets the size for one material.

5. Counts

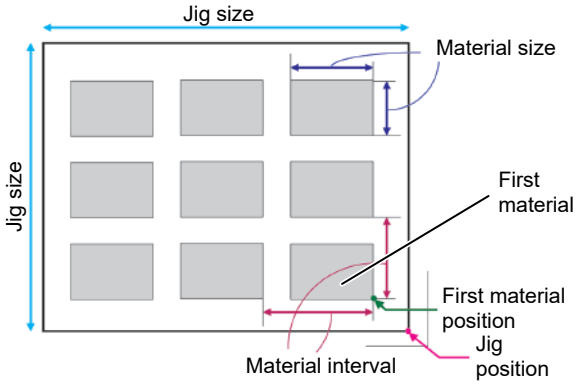
Sets the number of materials to be positioned.

6. [Interval (Pitch)]

Sets the material spacing.

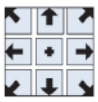
7. [First position]

Sets the distance from the lower right of the jig to the lower right of the first material.



8. [Placement]

Sets the material position used as the reference for placing jobs.



9. [Material]

Selects the material to be adjusted.

10. [Skip]

Selects whether or not to include a material in printing.

11. [Position]

Adjusts the material position.

Jig Print - Operations

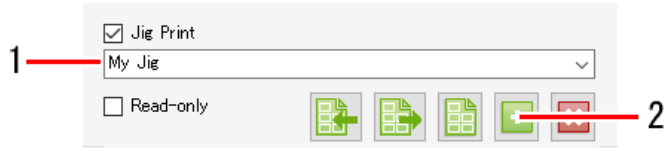
● Start jig printing setting

1 **Select the [Jig Print] check box on the [Jig Print] screen.**

- This allows the various [Jig Print] function settings to be edited.

● Edit a jig template

Create a new jig template



1 **Enter the name of the new jig template to be set in the jig template selection input box.**

2 **Click the [ ] icon.**

- The [Jig Definition] tab appears.

[Jig] : Sets the overall jig size, print origin position, and skew. Set the skew as the angle (-45° to 45°) with respect to the lower right of the jig.

- Skewing the jig also skews each material on the jig.
  Adjust the skew to correct tilt with respect to the table.
- Skewing jigs will cause job outlines and direct parts to become slightly jagged.
  Jagged edges will become particularly noticeable with low-resolution raster data.
  When skewing raster data, data should be created using a resolution close to the print resolution.

[Material] : Sets the individual material size, number, first material position, and placement.
Size is set as valid print size (minimum 25.4 mm), count is set up to 99 × 99 (total 9,801), and interval is set as pitch (width is the distance from the right-hand edge of the right-hand material, and height is the distance from the bottom edge of the material below).

[Adjustment] : Selects a material and finely adjusts its position. Select using the material pull-down menu or click the material in the preview. The selected material is shown in the preview in a red box.

Edit a jig template

1 **Select a jig template from the jig template selection pull-down menu.**

2 **Select the [Jig Definition] tab.**

3 **Click the [ ] icon after configuring the various jig settings.**

- The jig template settings will be overwritten.

Important!
- The [Entire print area] jig template cannot be edited.

Delete a jig template

1 **Select a jig template from the jig template selection pull-down menu.**

2 **Click the [ ] icon.**

- The jig template will be deleted.

Important! • The [Entire print area] jig template cannot be deleted.

● Print a jig outline

1 **Click the [ ] icon.**

- The [Print jig outline] dialog appears.

[Favorite] : Selects the favorite used when printing an outline.
[Line Width] : Sets the outline width.
[Color] : Sets the outline color.
[Offset] : Sets the method for drawing the jig rectangle.
(The red box in the following figure indicates the jig rectangle, and the black lines indicate the outlines printed.)

Offset	mm	Drawing setting	
Select	For 0	Prints an outline with the jig rectangle in the center of the lines.	
	Greater than 0	Prints an outline outside the jig rectangle.	
Half of line width	No setting	Prints an outline touching the jig rectangle on the outside.	

2 **Click [Print].**

- The outline is printed.

3 **Click [Save].**

- A PDF file is created.

● Enlarge or reduce a jig print job

1 **Select the [Valid] check box in [Scale] on the [Jig Layout] tab.**

2 **Sets [Width] and [Feed] for the job to be printed.**

- [Width] and [Feed] can be set as ratios (%) or size.
- If the [Keep aspect ratio] check box is selected, jobs can be enlarged or reduced while retaining the aspect ratio of the original image.

● Rotate a jig print job

1 **Select the angle for counter-clockwise rotation in [Rotation] on the [Jig Layout] tab.**

- With arranged jobs, the [Job List] thumbnails and settings for the jobs selected on the jig print preview screen are refreshed.

● Reverse a jig print job

1 **Select the [Reverse] check box in [Mirror] on the [Jig Layout] tab.**

- With arranged jobs, the [Job List] thumbnails and settings for the jobs selected on the jig print preview screen are refreshed.

● Copy a jig print job

1 **Select the number of copies required using [Copy] on the [Jig Layout] tab.**

- The job is copied and automatically positioned.
- With arranged jobs, the [Job List] thumbnails and settings for the jobs selected on the jig print preview screen are refreshed.

● Print

1 **Click the [] icon in the preview.**

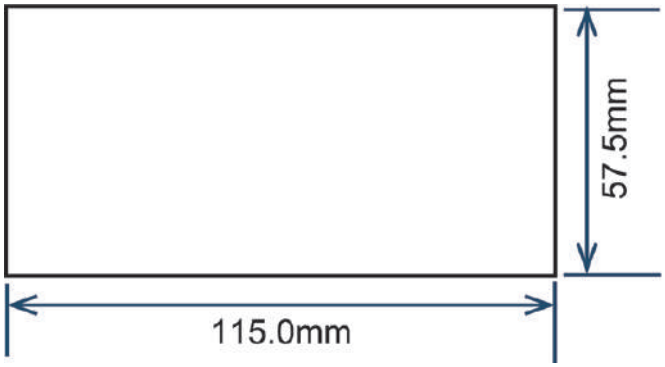
- This starts ripping and printing using the same settings as the last time [Execute] was used. For more information on settings, refer to ☞ "Execute"(P. 98).

● Use the jig barcode function

- For more information on the jig barcode function, refer to the separate "Jig Barcode Function Guide".

● Printing procedure using a jig

This example describes how to print on material with the dimensions shown in the following figure.

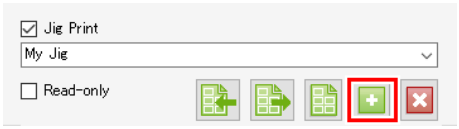


1 Register a new jig template.

(1) Select the job to be printed, then click the [ ] icon to open the [Jig Print] screen.

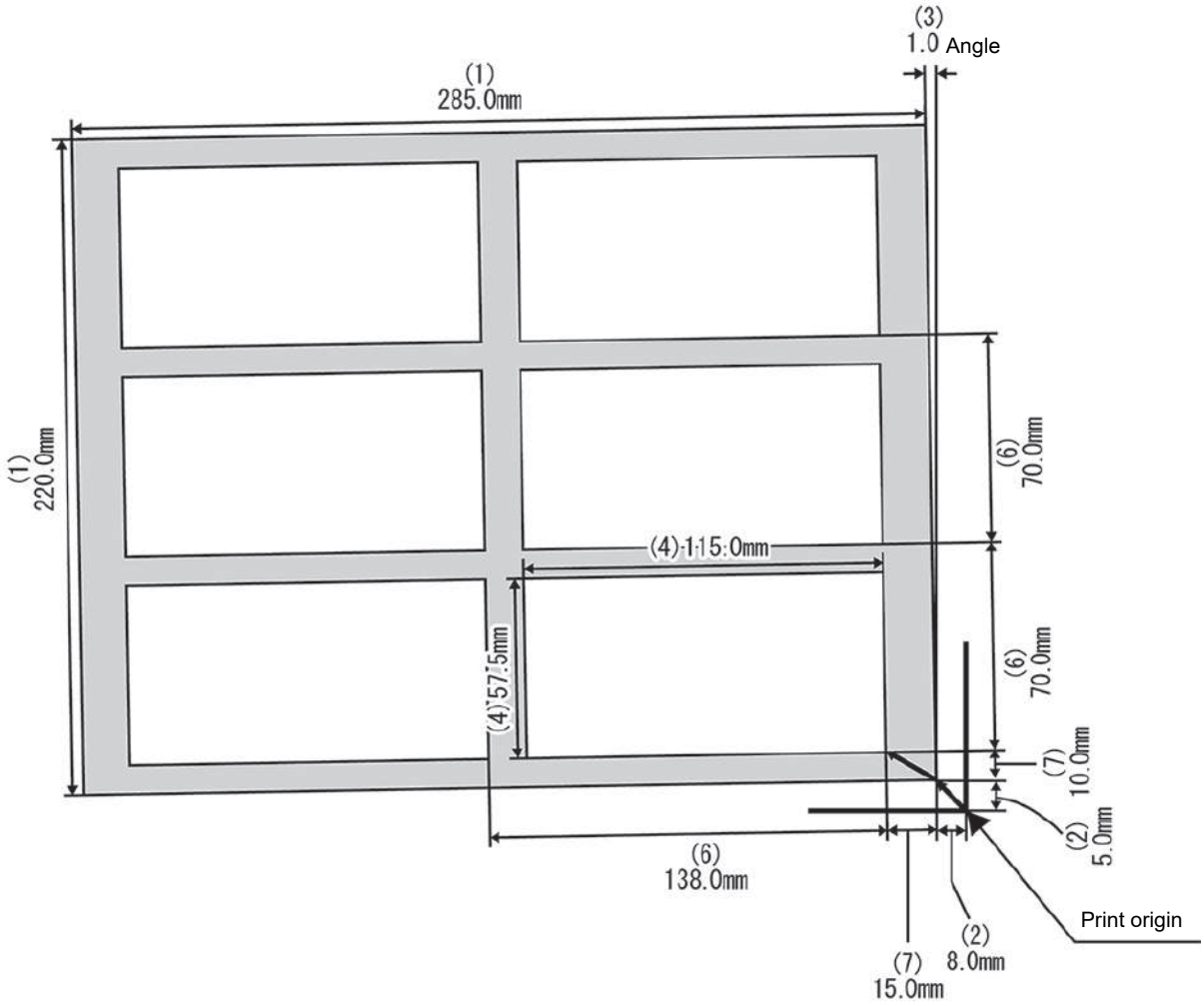
(2) Enter a suitable name for the jig template (here we use "MyJig"), then click the [ ] icon.

- The display automatically switches to the [Jig Definition] tab.

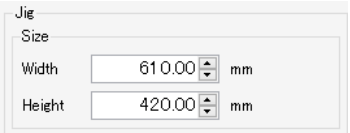


2 Set the jig template.

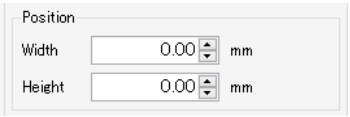
- Enter the size information for the jig mounted on the printer.
  The example here describes the procedure for the jig created and mounted with the following dimensions.
  The numbers in the figure correspond to the step numbers shown after it.



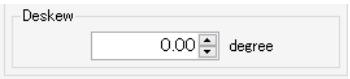
(1) Enter the overall jig size.



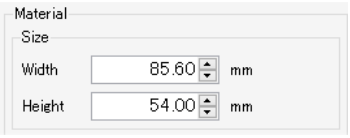
(2) Enter the distance from the print origin position to the lower right of the jig.



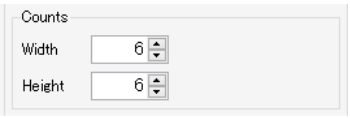
(3) Enter the angle for the jig skew with respect to the table. Enter positive values for counter-clockwise angles and negative values for clockwise angles.



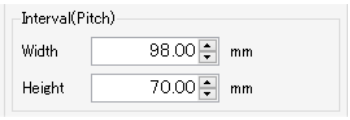
(4) Enter the material size.



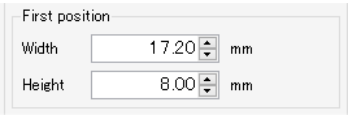
(5) Enter the number of materials placed in the width and height directions respectively.



(6) Enter the interval and pitch when laying out materials in rows.



(7) Enter the distance from the lower right of the jig to the lower right of the material position.

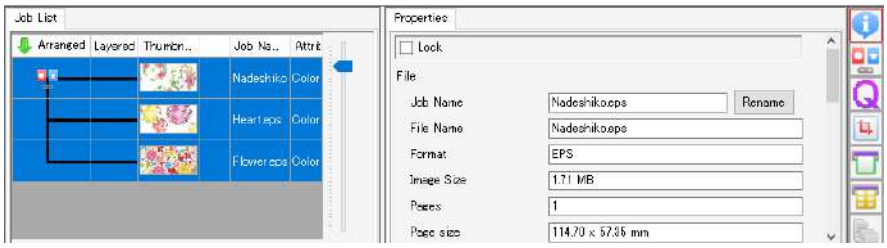


(8) Select the job placement reference if the material size does not match the image size.

3 Positions the job on a jig.

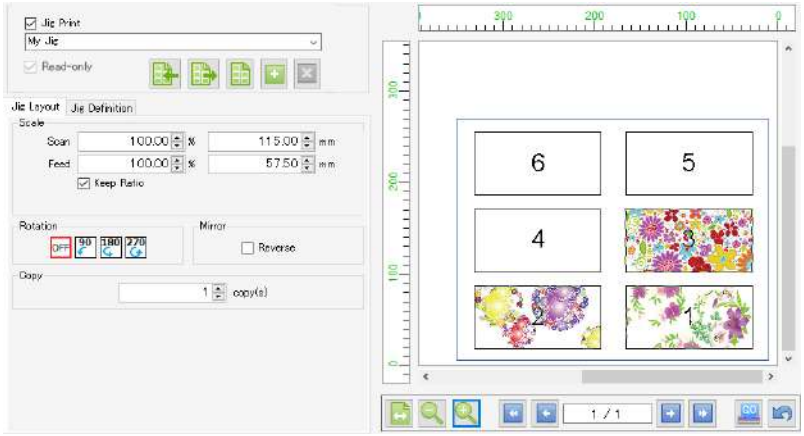
(1) Click the job [ ] icon to display the [Job List] tab.

(2) Select the job to be printed, then open the [Jig Print] screen. The example here shows the procedure for selecting three arranged jobs.



(3) Select the jig template created (MyJig).

- The jobs are placed in the preview one by one.



(4) If each job is to be printed multiple times, select the job in the preview, then set the number of copies to be printed in [Copy]. Here we set two copies of each job to be printed.

Important!

- [Jig Print] cannot be selected if multiple non-arranged jobs are selected. Depending on the conditions, some settings may not allow [Jig Print] to be selected. For more information, refer to ☞ "Conditions"(P. 153).
- Placement proceeds from the upper jobs. If the printing sequence is important, note the sequence in which images are imported into RasterLink7.
  (The order of the job list is determined automatically by the order in which images are imported. The job list cannot be reordered after images have been imported.)

4 Print.

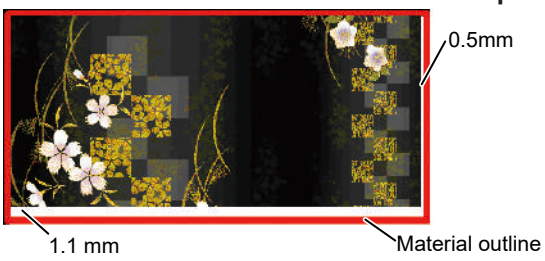
Click the [] icon below the preview to print.

● Corrective action when printing issues arise

When the print position is offset

If the print position is offset even when the previously set jig template is called up and printing is repeated, set [Adjustment] on the [Jig Definition] tab.
In the example described here, the third material position is offset.

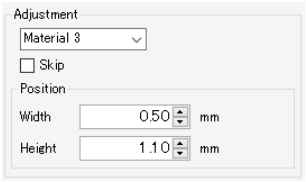
1 **Measure the amount of offset between printing and the material.**



2 **Opens the [Jig Print] screen.**

3 **Open the [Jig Definition] tab.**

4 **Select [Material 3] in [Adjustment], then enter [Width] and [Height] as shown below.**



5 **Print again and check the position.**

Print only a specific job when one material is not correctly printed (when copy is set with only one job)

1 **Set the number of copies to the number of failed prints.**

2 **Print.**

Print only a specific job when one material is not correctly printed (when using arrangement)

1 **Cancel arrangement.**

2 **Repeat arrangement for only the job that was incorrectly printed.**

3 **Print.**

● Import a jig definition file to RasterLink7

Import a jig definition file created as described in ☞ "When exporting a jig definition file"(P. 166).

1 **Click the [] (Import) icon.**

- A file selection dialog appears.

2 **Select the required jig definition file, then click [OK].**

- The jig template set by the definition file will now be selected.

Important! The selected jig definition file cannot be imported in the following cases:

- When a jig template with the same name already exists in RasterLink7
- When the selected definition file size exceeds the table size of the printer displayed in RasterLink7.
- When the exported jig definition file has been renamed

● When exporting a jig definition file

1 **Select the jig template to be exported.**

2 **Click the [] (Export) icon.**

- The file save dialog appears.

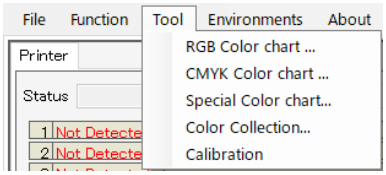
3 **Add a suitable name, then click [Save].**

- The name specified here will be used as the name of the jig template when the jig definition file is imported to RasterLink7.

2.3 Tool

This section explains the various color charts, color collections, and calibration.

Select from the [Tool] menu at the top of the main screen.



- In RasterLink7, "color charts" refer to color samples with varying color components centering around a base color.

2.3.1 RGB Color chart

The functions screen layout and operations for [RGB Color chart] are the same as for [CMYK Color chart].

[CMYK] in [CMYK Color chart] should be replaced with [RGB] when referring to the explanation.

2.3.2 CMYK Color chart

The CMYK color chart printed can be used to alter the colors of a CMYK image using design software before spooling to output the desired colors.

If a printed color differs from the intended color, creating a color chart focusing on that color makes it easier to identify the target color.

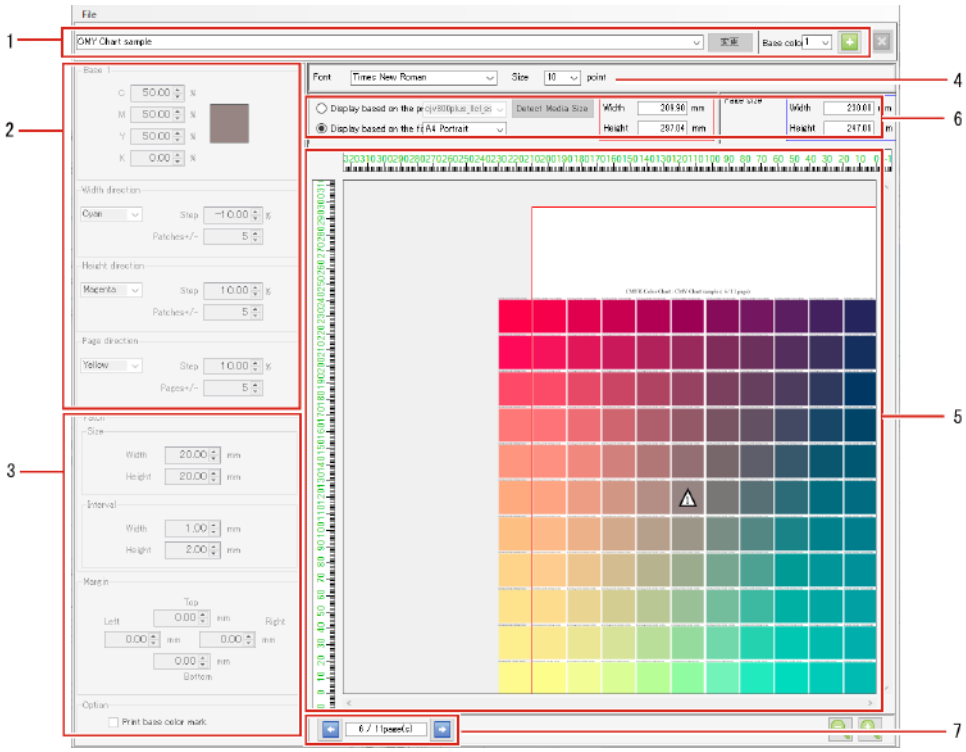
CMYK Color chart - Functions

[CMYK Color chart] allows the following operations.

- Add a color chart definition file
- Edit a color chart definition file
- Create a PDF from a color chart
- Import a color chart PDF as a job
- Delete a color chart definition file

CMYK Color chart - Screen Layout

[CMYK Color chart] screen



1. Color chart definition file

Adds, selects, deletes, and edits chart definition files.

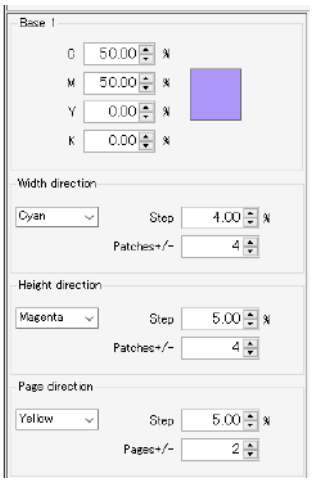
2. Color settings

Sets the base color(s) and color component variations.

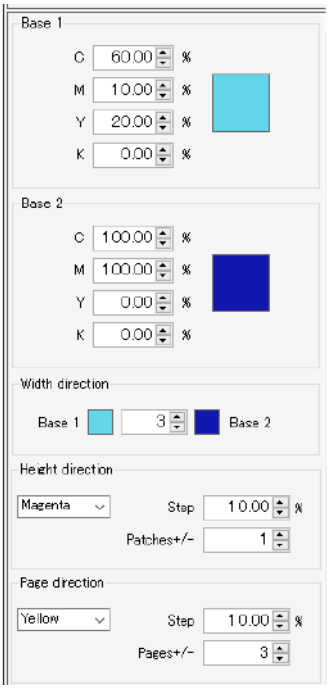
The number of base colors can be selected as 1, 2, or 4.

The details displayed will vary depending on the number of base colors.

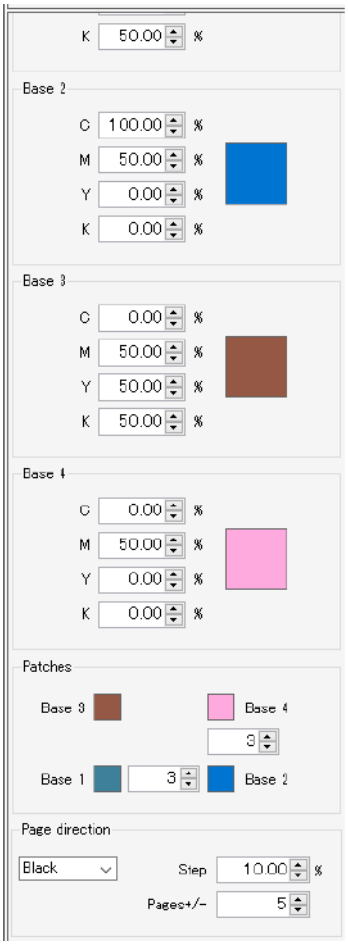
With one base color



With two base colors



With four base colors



3. Layout settings

Sets patch, margin, and base color mark printing.

- In RasterLink7, "patches" refer to colored rectangles within the chart preview.

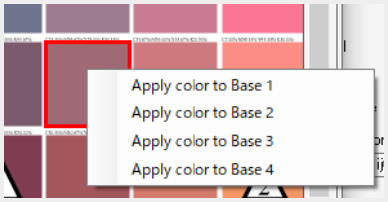
4. [Font]

Sets the text font used for color charts and the title size for each page.

5. Chart preview

Displays the color chart preview.

- Clicking a patch selects that patch and displays its color component densities at the bottom of the screen.
- Right-clicking a patch displays a pop-up menu.
  The selected colors can be set to base colors 1 to 4.



6. Preview display settings

Sets the area displayed in the chart preview.

[Display based on the printable area]: Displays based on the media size for the selected printer.

[Display based on the fixed form]: Displays based on the selected fixed form size and orientation.

Important!

- The area set here is the display area on the preview and differs from the actual page size. The actual color chart created will use the [Page size] area enclosed in blue.

7. Pages

Switches between pages created if [Pages ±] in [Page direction] is set to more than one page.

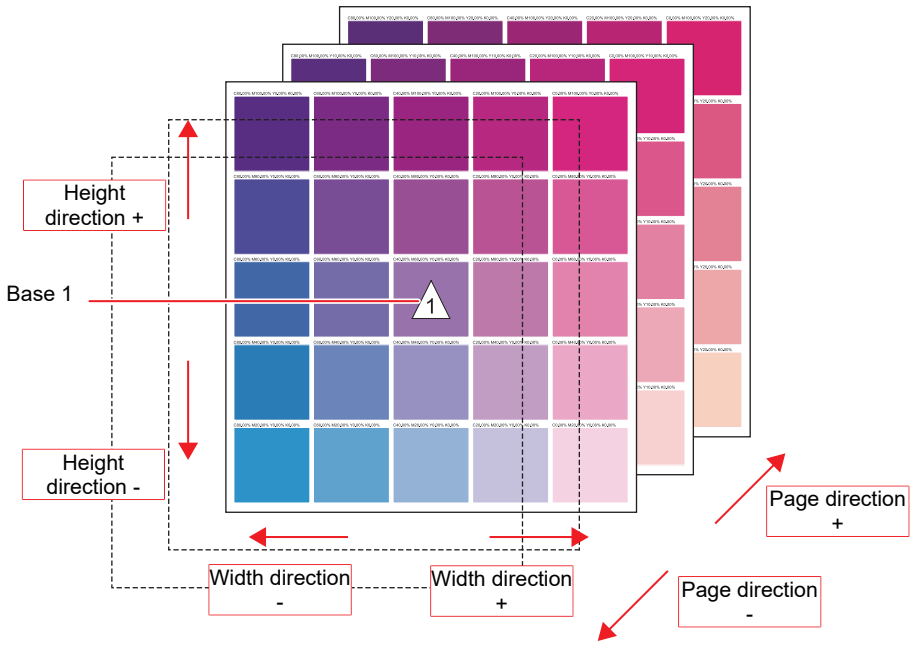
CMYK Color chart - Operations

● Add a color chart definition file

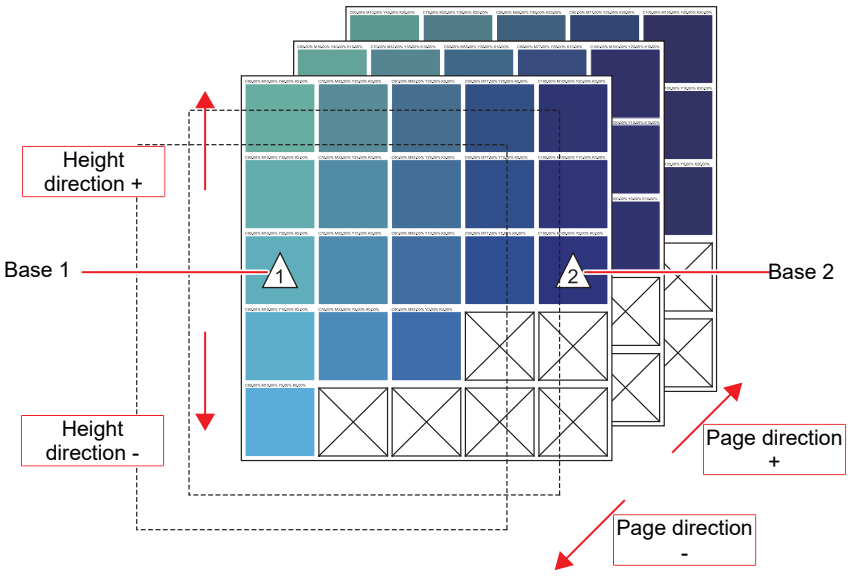
1 Enter the name of the definition file for the new color chart to be created in the input box for chart name on the [CMYK Color chart] screen.

2 Select the number of base colors from the [Base colors] list, then click the [ ] icon. Three different charts can be created, depending on the number of base colors.

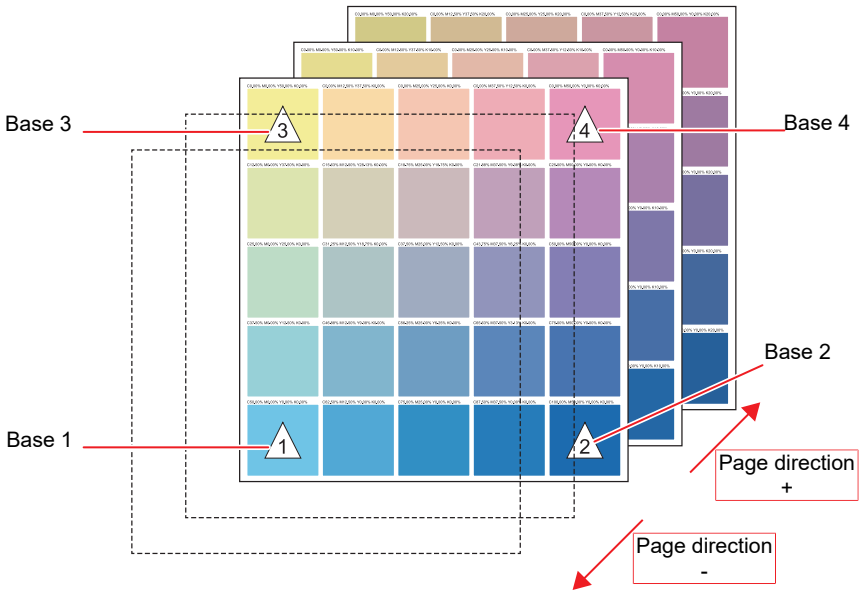
- [1 base colors] : Creates a color chart based on one base color with color components (CMYK) varied in three directions across height, width, and pages.



- [2 base colors] : Varies two base colors across the width direction. Also creates a color chart with color components (CMYK) varied in two directions across height and pages.



- [4 base colors] : Varies four base colors across the width and height directions.
  Also creates a color chart with color components (CMYK) varied across pages.



- If a color chart definition file with the same name already exists, an overwrite confirmation dialog will appear.
  Overwriting will change all of the values.

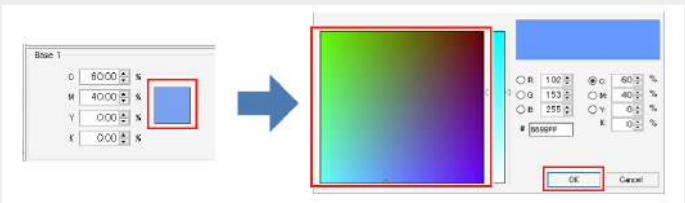
● Edit a color chart definition file

1 Select the name of the color chart to be set in the pull-down menu for chart definition file name on the [CMYK Color chart] screen.

2 Enter the CMYK density in the Color settings base color input boxes.

- The square to the right of the input boxes changes to the color input.

- Clicking the square displays a color selection dialog.
  Click the desired color from the displayed colors to set the base color.



3 **Set the value in the [Width direction] patches input box.**

- This varies the number of patches in the width direction on the color chart.

- If only one base color was set, the color component (CMYK) to be varied in the width direction is set together with the increment (%).

4 **Set the value in the [Height direction] patches input box.**

- This varies the number of patches in the height direction on the color chart.

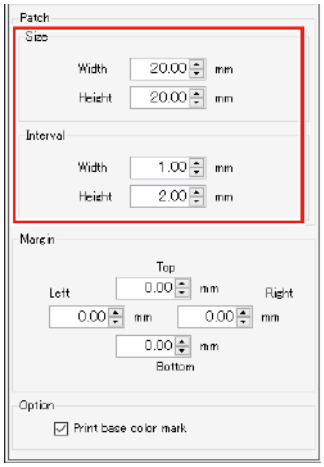
- If one or two base colors were set, the color component (CMYK) to be varied in the height direction is set together with the increment (%).

5 **Set the value in the [Page direction] pages input box.**

- This varies the number of color chart pages.

- Set the color component (CMYK) to be varied in the page direction and the increment (%).

6 **Configure the various settings for the color chart patches in [Patch].**



[Size] : Sets the size (width and height) of each patch.
[Interval] : Sets the spacing (width and height) between patches.

7 **Sets the color chart page margins (top, bottom, left, right) in [Margin].**

8 **To set base color marks to be printed, enable the [Print base color mark] check box in [Option].**

- If enabled, a color chart is printed with the △ symbol added to the base color.

- The base color △ symbol is displayed in the chart preview regardless of the [Print base color mark] setting.
- Clicking [Update] on the [CMYK Color chart] screen once the settings have been completed updates the color chart definition file.

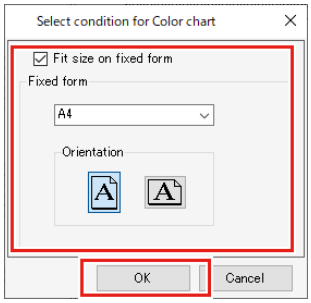
● Create a PDF from a color chart

Create a PDF from a color chart.

1 **Select [Create PDF] in the [File] menu on the [CMYK Color chart] screen.**

- The [Select condition for Color chart] dialog appears.

2 **Specify the PDF size, then click [OK].**



- The [Save] dialog appears.

- Selecting the [Fit size on fixed form] check box allows the color chart PDF media size and orientation to be selected.

3 **Enter the file name, then click [Save].**

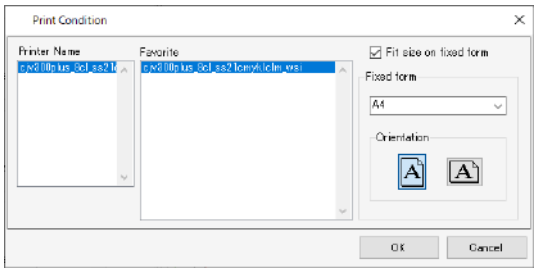
- A PDF is created from the color chart.

● Import a color chart PDF as a job

Automatically imports a color chart PDF as a job.

1 Select [Create Job] in the [File] menu on the [CMYK Color chart] screen.

- The [Select condition to print] dialog appears.
  Selecting the [Fit size on fixed form] check box allows the CMYK color chart PDF media size and orientation to be selected.



2 Select one [Favorite], then click [OK].

- The CMYK color chart PDF will be imported as a RasterLink7 job.

- The imported job will be the same as a job created by importing a typical multi-page PDF.

● Delete a color chart definition file

1 Select the name of the color chart to be deleted in the pull-down menu for chart name on the [CMYK Color chart] screen.

2 Click the [ ] icon.

- The color chart definition file is deleted.

2.3.3 Special Color chart

The special color chart printed is used to specify the ink density for colors after replacement using ☞ "Color Replacement"(P. 124).

If a printed color including special color ink differs from the intended special color, creating a color chart focusing on that color makes it easier to identify the target color.
This can be used for checking in cases such as when color replacement uses colors including special color ink, such as white and silver.

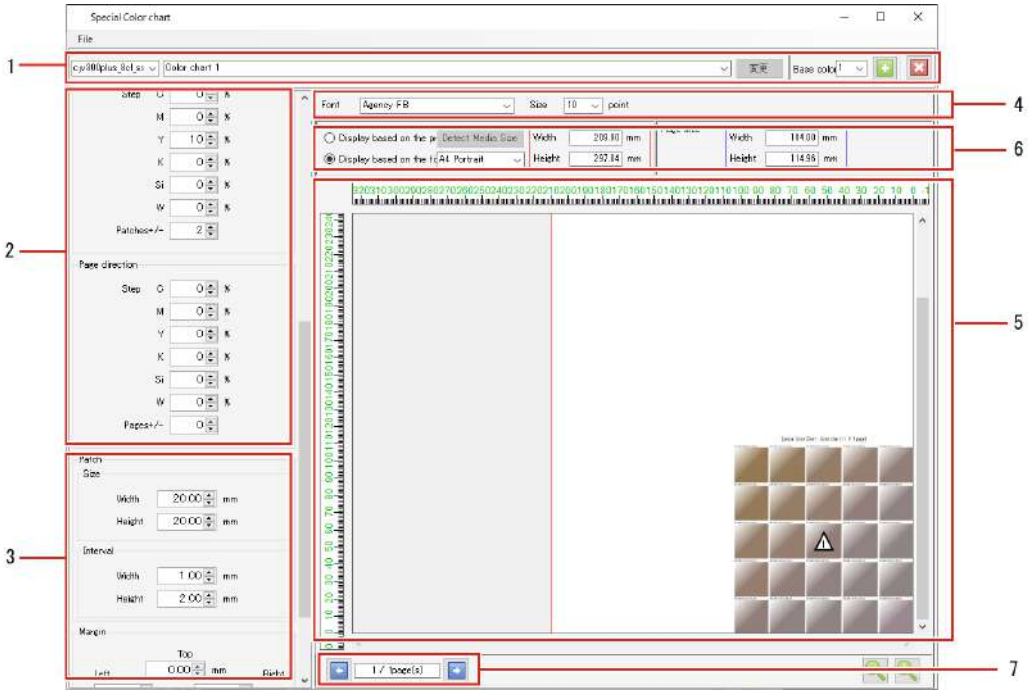
Special Color chart - Functions

[Special Color chart] allows the following operations.

- Add a special color chart definition file
- Edit a special color chart definition file
- Import a special color chart PDF as a job
- Delete a special color chart definition file

Special Color chart - Screen Layout

● [Special Color chart] screen



1. Color chart definition file

Adds, selects, deletes, and edits chart definition files.

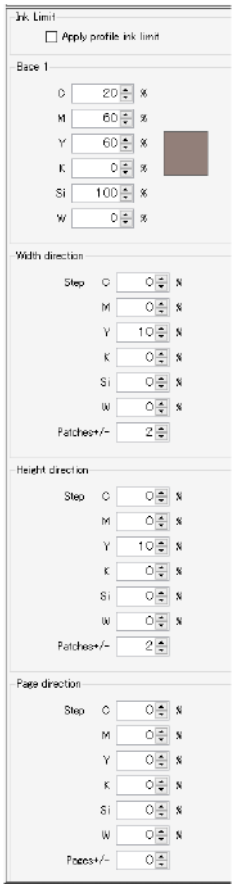
2. Color settings

Sets the base color(s) and color component variations.

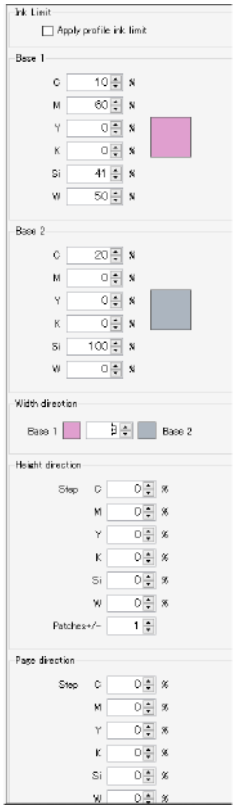
The number of base colors can be selected as 1, 2, or 4.

The details displayed will vary depending on the number of base colors.

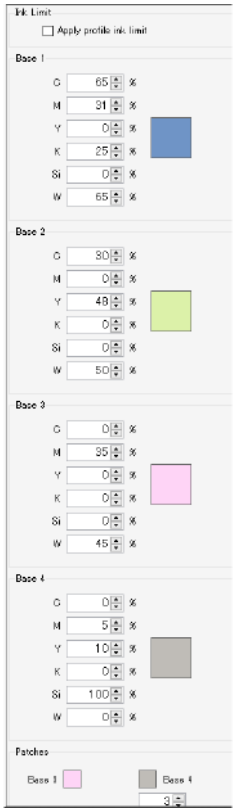
With one base color



With two base colors



With four base colors



3. Layout settings

Sets patch, margin, and base color mark printing.

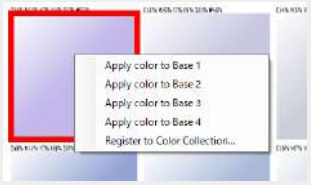
4. [Font]

Sets the text font used for special color charts and the title size for each page.

5. Chart preview

Displays the color chart preview.

- Clicking a patch selects that patch and displays its color component densities at the bottom of the screen.
- Right-clicking a patch displays a pop-up menu.
  The selected colors can be set to base colors 1 to 4.
  The selected colors can also be registered in a color collection.



6. Preview display settings

Sets the area displayed in the chart preview.

[Display based on the printable area]: Displays based on the media size for the selected printer.

[Display based on the fixed form]: Displays based on the selected fixed form size and orientation.

Important!

- The area set here is the display area on the preview and differs from the actual page size. The actual color chart created will use the [Page size] area enclosed in blue.

7. Pages

Switches between pages created if [Pages ±] in [Page direction] is set to more than one page.

Special Color chart - Operations

● Add a special color chart definition file

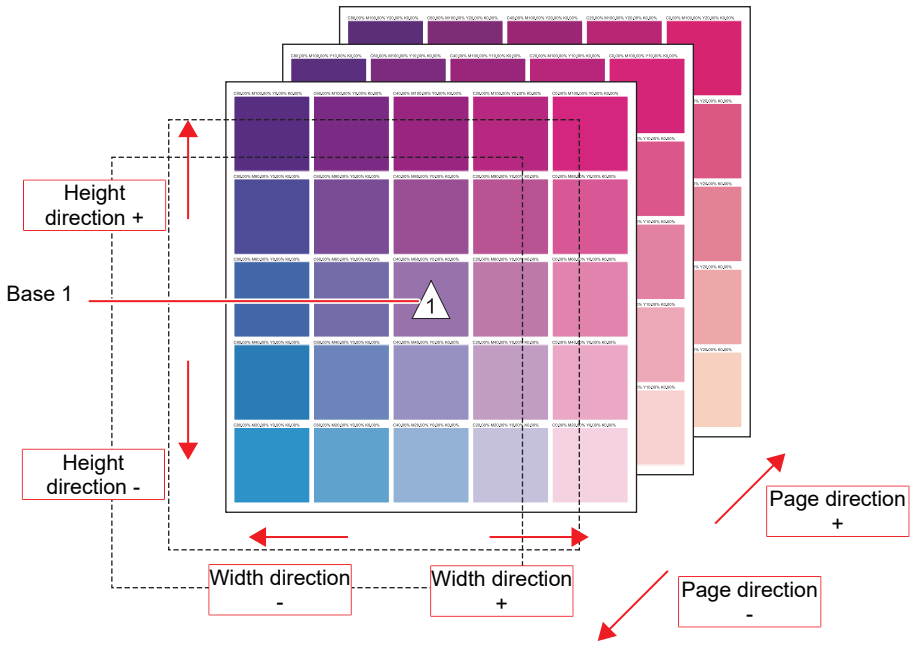
1 Select the printer in the pull-down menu to the left of chart name on the [Special Color chart] screen.

- A color chart can be created using the special color inks for the printer selected.

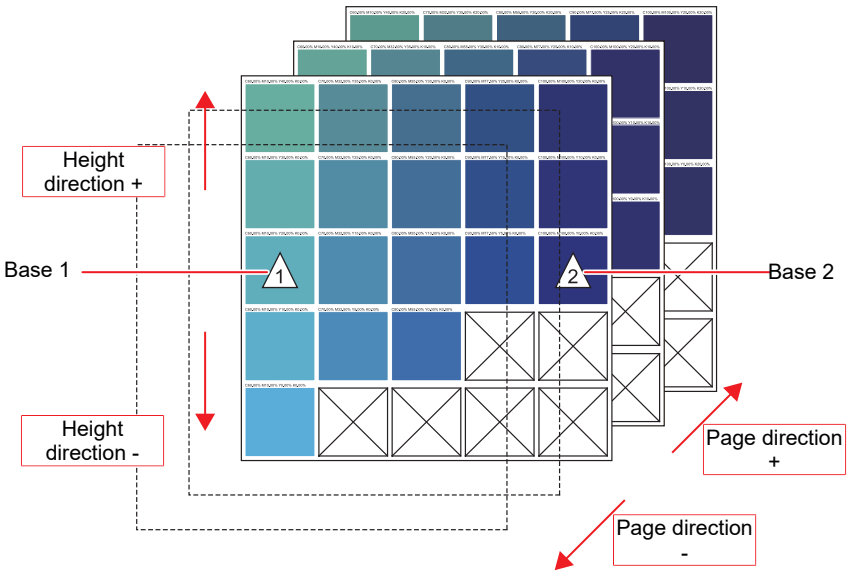
2 Enter the name of the new color chart definition file to be created in the input box on the right.

3 Select the number of base colors from the [Base colors] list, then click the [ ] icon. Three different charts can be created, depending on the number of base colors.

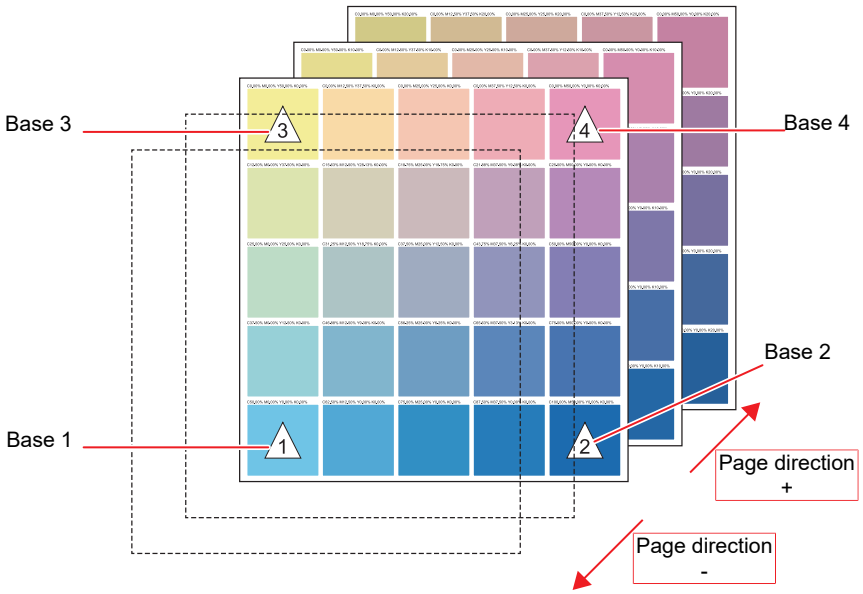
- [1 base colors] : Creates a special color chart based on one base color with color components varied in three directions across height, width, and pages.



- [2 base colors] : Varies two base colors across the width direction. Also creates a special color chart with color components varied in two directions across height and pages.



- [4 base colors] : Varies four base colors across the width and height directions. Also creates a special color chart with color components varied across pages.



- If a color chart definition file with the same name already exists, an overwrite confirmation dialog will appear.
  Overwriting will change all of the values.

● Edit a special color chart definition file

1 Select the name of the color chart definition file to be set in the pull-down menu for chart definition file name on the [Special Color chart] screen.

2 Select or deselect the [Apply profile ink limit] check box.

Selecting this applies the ink limit set in the device profile.
This enables ink overflowing to be minimized.

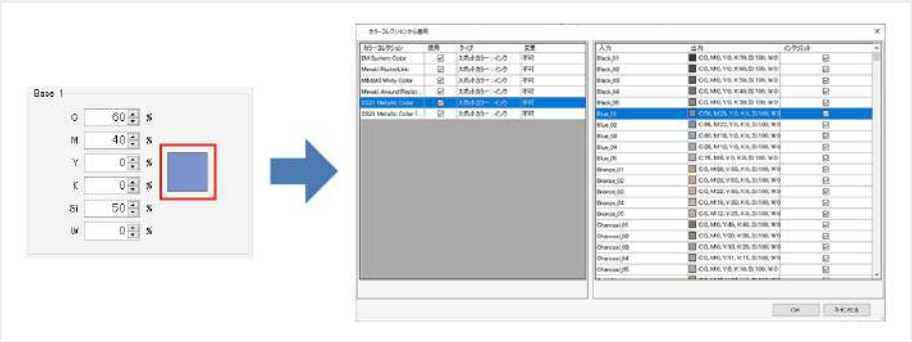
Important!

- [Apply profile ink limit] will always be enabled if the inkset has three or more slots for special color inks.

3 **Enter the ink density in the Color settings base color input boxes.**

- The square to the right of the input boxes changes to the color input.

- Clicking the square displays the [Color Collection] dialog.
  Click the desired color from the color collection displayed to set the base color.



4 **Set the value in the [Width direction] patches input box.**

- This varies the number of patches in the width direction on the color chart.

- If only one base color was set, the ink density (%) to be varied in the width direction is set.

5 **Set the value in the [Height direction] patches input box.**

- This varies the number of patches in the height direction on the color chart.

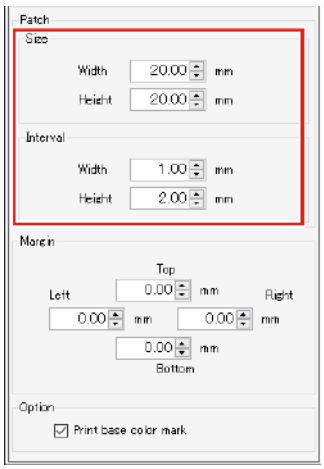
- If one or two base colors were set, the ink density (%) to be varied in the height direction is set.

6 **Set the value in the [Page direction] pages input box.**

- This varies the number of color chart pages.

- The ink density (%) to be varied in the page direction is set.

7 **Configure the various settings for the color chart patches in [Patch].**



[Size] : Sets the size (width and height) of each patch.
[Interval] : Sets the spacing (width and height) between patches.

8 **Sets the color chart page margins (top, bottom, left, right) in [Margin].**

9 **To set base color marks to be printed, enable the [Print base color mark] check box in [Option].**

- If enabled, a color chart is printed with the △ symbol added to the base color.

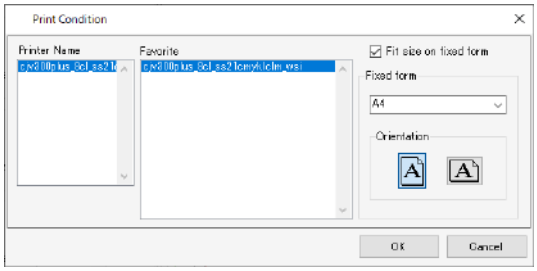
- The base color △ symbol is displayed in the chart preview regardless of the [Print base color mark] setting.
- Clicking [Update] on the [Special Color chart] screen once the settings have been completed updates the color chart definition file.

● Import a special color chart PDF as a job

Automatically imports a special color chart PDF as a job.

1 **Select [Create Job] in the [File] menu on the [Special Color chart] screen.**

- The [Select condition to print] dialog appears.
  Selecting the [Fit size on fixed form] check box allows the special color chart PDF media size and orientation to be selected.



2 **Select one [Favorite], then click [OK].**

- The special color chart PDF will be imported as a RasterLink7 job.

- The imported job will be the same as a job created by importing a typical multi-page PDF.
- The imported job has color replacement set on the Color Replacement screen.

● Delete a special color chart definition file

1 **Select the name of the special color chart definition file in the pull-down menu for chart definition file name on the [Special Color chart] screen.**

2 **Click the [ ] icon.**

- The special color chart definition file is deleted.

2.3.4 Color Collection

Sets color collections and automatically replaces colors.

● About color collections

Color collections contain color replacement ☞ "Color Replacement"(P. 124) information.

Collection files can be created separately for color information before and after replacement to suit requirements.

● Color Collection screen display

Open [Color Collection] in the [Tool] menu.

Or click  on the Color Replacement screen.

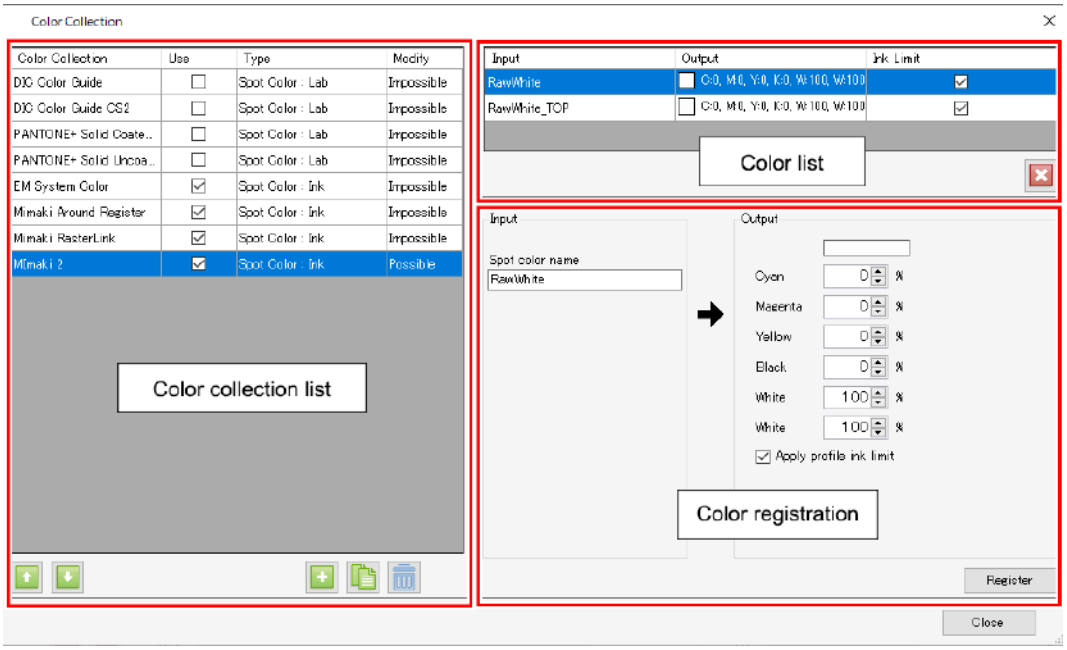
Color Collection - Functions

[Color Collection] allows the following operations.

- Check color collection settings
- Add a color collection
- Edit a color collection
- Duplicate a color collection
- Delete a color collection

Color Collection - Screen Layout

● [Color Collection] screen



● Color collection list

Displays the list of color collections that can be used with the printer displayed in RasterLink7.

- **[Color Collection]**

  Displays the color collection file name.

- **[Use]**

  If selected, colors are replaced automatically in accordance with the color collection settings when the original image is imported.

- **[Type]**

  Displays the color collection type.

Color collection type		Colors replaced
Spot color	Ink	The spot color is replaced by the printer ink.
	Lab	The spot color is replaced by the Lab values.
CMYK	Ink	The CMYK process color is replaced by ink.
	Lab	The CMYK process color is replaced by the Lab values.
Gradation		Gradation is replaced with the gradation set.

- **Modify**

  Indicates whether or not the color can be modified.

● Notes about preset color collections

The following color collections are preset. These color collections cannot be modified.

- **DIC Color Guide Spot Colors**[*1] **(Type: Lab)**

Color collection name	Adobe Illustrator version
DIC Color Guide	8 to CS supported
DIC Color Guide CS2	CS2 onward supported

- **PANTONE® Color Spot Colors**[*1] **(Type: Lab)**

Color collection name	Number of colors
PANTONE+ Solid Coated-V3	1867
PANTONE+ Solid Uncoated-V3	
PANTONE(R) Solid Coated-V4	2161
PANTONE(R) Solid Uncoated-V4	

- **Spot colors that can be replaced by special color inks (white, clear, primer) only**[*2, *3] **(Type: Ink)**

Color collection name	Adobe Illustrator swatch file	Remarks
Mimaki RasterLink	MIMAKI RasterLink Library	"CutContour" is included in the swatch file.

- **Spot colors that use white ink**[*2, *3] **(Type: Ink)**

Color collection name	Adobe Illustrator swatch file
Mimaki Whity Color	MIMAKI Whity Library 370

- **Spot colors that use silver ink[*2, *3] (Type: Ink)**

Color collection name	Adobe Illustrator swatch file	When usable
SS21 Metallic Color	MIMAKI Metallic Color Library	• When using SS21 silver ink
SS21 Metallic Color (No Silver)		• When using SS21 silver ink[*4]
Metallic Color (No Silver)		• When using MUH-100 (silver ink)*4
SS21 Metallic Orange Color	MIMAKI SS21Metallic Orange Color	• When using SS21 orange or silver ink
SS21 Metallic Orange Color (No Silver)		• When using SS21 orange or silver ink[*4]

*1. With the initial default settings, if an imported image contains the same color information as within the color collection, the output data is automatically set to not have color replaced automatically. If you wish to have colors replaced automatically, set "Use" to "ON". ☞ "Color Collection - Screen Layout"(P. 184)

*2. The Adobe Illustrator swatch file is located in the following folder.
RasterLink installation folder/Swatch/Illustrator

*3. The color charts (PDF) specifying the color collection spot colors are located in the following folder.
RasterLink installation folder/ColorChart/Defaul

*4. Silver ink is not included in colors after replacement. This is used when creating a silver plate separately.
For more information refer to the separate "Metallic Color Printing Guide".

● Color list

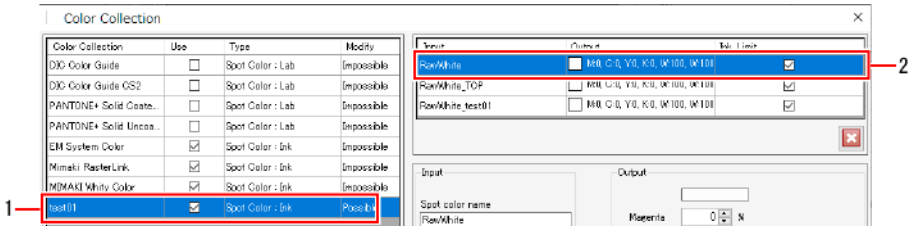
Displays the colors registered in the color collection file selected from the color collection list.

● Color registration

Registers and edits color settings (colors before and after replacement) in the color collection file selected from the color collection list. Refer to ☞ "Color Replacement - Functions"(P. 124).

Color Collection - Operations

● Check color registration settings



1 **Select a color collection file from the color collection list on the [Color Collection] screen.**

- The color list is displayed.

2 **Select a color in the color list.**

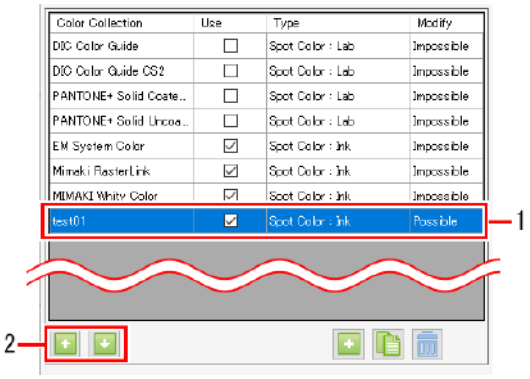
- The color settings before and after replacement are displayed in color registration.

● Automatically replace a color in accordance with color collection settings

1 **Select the color collection to be used and select a [Use] check box in the color collection list on the [Color Collection] screen.**

2 **Click the [ ] icons to reorder the color collection.**

- The color collection order of priority is modified.
- If the [Use] check box is selected for more than one color collection and they contain the same conditions, the color collections higher in the list will be applied.



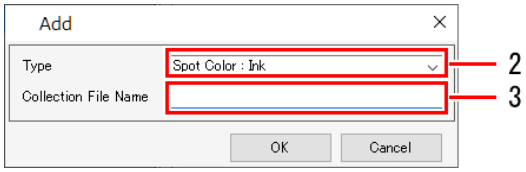
- The color collection will be applied automatically when a new image is imported.

● Add a color collection

1 **Click the [ ] icon on the color collection list on the [Color Collection] screen.**

- The [Add] dialog appears.

2 **Select the color collection type in the [Type] list in the [Add] dialog.**

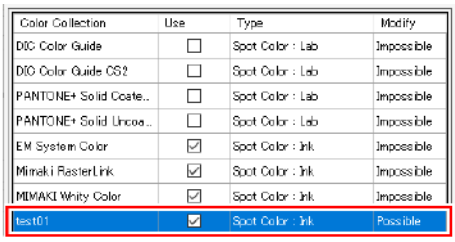


3 **Enter the color collection file name in [Collection File Name].**

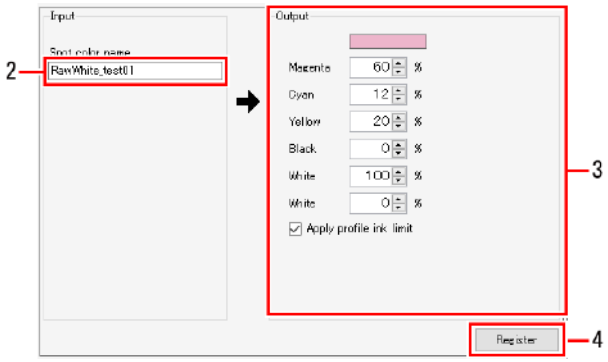
- The color collection is added.

● Edit a color collection

1 **Select one color collection file from the color collection list on the [Color Collection] screen.**



2 **Set the color information before replacement in [Input] in the register area.**



- The color information that can be set will vary depending on the color collection type. Refer to ☞ P. 124.

3 **Set the color information after replacement in [Output] in the register area.**

- The color information that can be set will vary depending on the color collection type. Refer to ☞ P. 124.

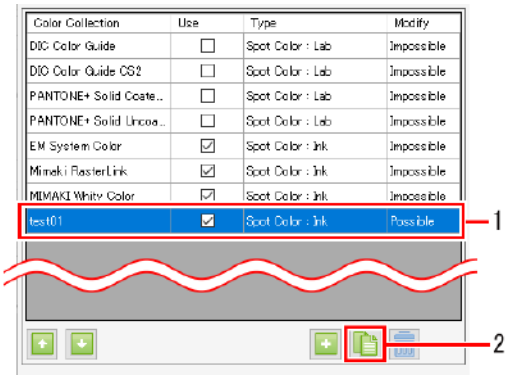
4 **Click [Register].**

- The color is added to the color list.

- To delete a color, select the color to be deleted in the color list, then click the [ ] icon.

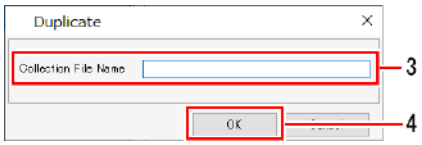
● Duplicate a color collection

1 **Select the color collection to be duplicated in the color collection list on the [Color Collection] screen.**



2 **Click the [ ] icon.**

3 **Enter the color collection file name in [Collection File Name] in the [Duplicate] dialog.**

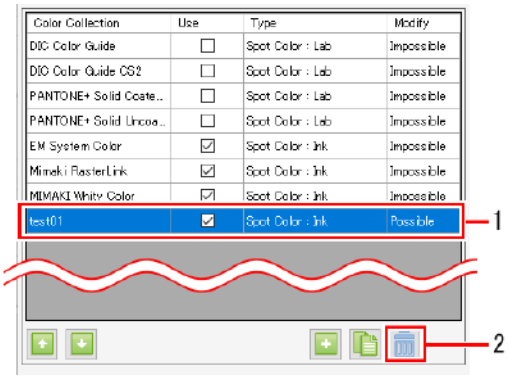


4 **Click [OK].**

- The color collection is duplicated.

● Delete a color collection

1 **Select the color collection to be deleted in the color collection list on the [Color Collection] screen.**



2 **Click the [ ] icon.**

- A [Confirmation] dialog appears.
- Clicking [Yes] deletes the color collection.

Important! • Color collections cannot be deleted if [Modify] is indicated as [Impossible].

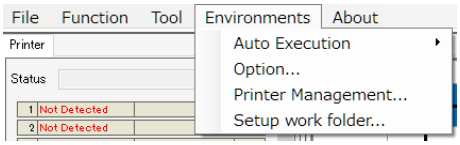
2.3.5 Calibration

Calibration can be performed using RasterLink7 by installing a separate calibration tool.

For more information on how to set up and use the calibration tool, refer to the separate "Calibration Tool Guide".

2.4 Environments

This section explains the various setting procedures.
Select from the [Environments] menu at the top of the main screen.

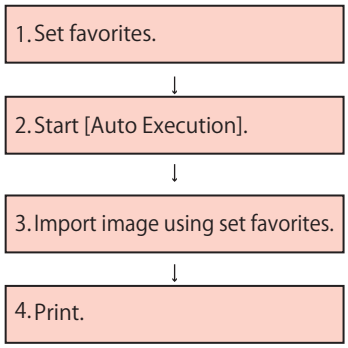


2.4.1 Auto Execution

This is a function for automatically starting ripping and outputting when image data is imported.

Execute - Functions

The process for [Auto Execution] is as follows.



1. Set the favorites for the image data to be printed using [Auto Execution].
2. Start [Auto Execution].
3. Import image data to the hot folder and printer driver with the same name as the favorites set in 1.
4. Printing starts automatically.

Important!

- Jobs that are awaiting printing under auto execution (with light blue backgrounds) cannot be operated on using the various menus. If you wish to work on a job, first stop [Auto Execution].

● Conditions

The following operations are not possible with [Auto Execution].

- [Composite]
- [Tiling]
- [Step & Repeat]
- [Jig Print] (with flatbed printers)
- Arrange
- Fotoba cut mark printing

Execute - Operations

● Start [Auto Execution]

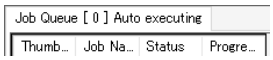
1 Sets the favorite settings to be applied when original image data is imported.

- For more information on how to set favorites, refer to ☞ "Favorite"(P. 139).

- Color replacement applies the color collection settings. ☞ "Color Collection"(P. 183)

2 Select [Environments] - [Auto Execution] - [Start].

- Auto execution restarts.
- When auto execution is in progress, [Auto executing] is displayed for [Job Queue]. ☞ "[Job Queue] tab"(P. 100)



3 Import original print data.

- Printing starts automatically.

For information on how to import jobs, refer to ☞ "Importing Print Data"(P. 11).

- After printing, the settings for ☞ "[Delete ripped data after print] or [Delete Job after print]"(P. 101) on the job [Execute] screen are applied.

● Stop auto execution

1 Select [Environments] - [Auto Execution] - [Stop].

- Auto execution stops.

To cancel ripping or printing

- Execute "Stop Job Queue" ☞ "[Job Queue] tab"(P. 100).
  Simply selecting [Stop] for [Auto Execution] alone does not cancel ripping or printing.

2.4.2 [Option]

Sets the RasterLink7 performance.

[Option] - Functions

[Option] allows the following operations.

- Set job control
- Set the display
- Set the disk
- Set the colorimeter
- Set the interface

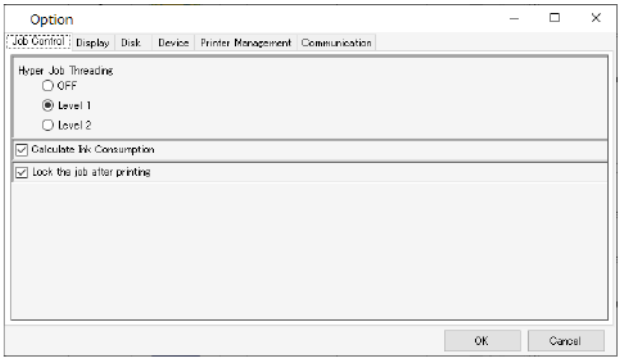
● Conditions

Settings changed in [Option] will be applied after RasterLink7 has been restarted.

[Option] - Screen Layout

● [Environments] - [Option] dialog

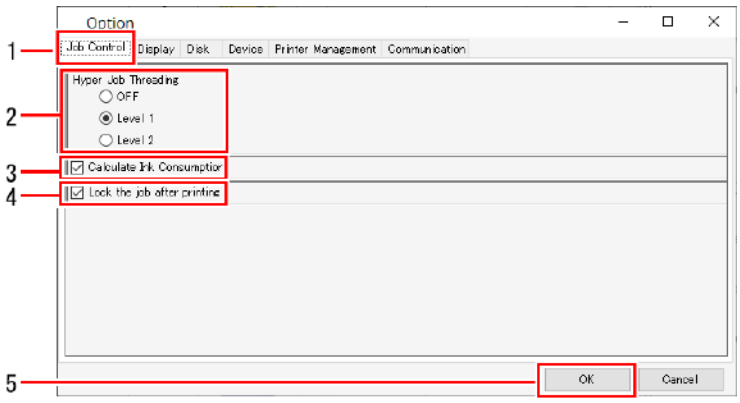
Configures the various environmental settings.



[Option] - Operations

● Set job control

1 **Select the [Job Control] tab in the [Environments] - [Option] dialog.**



2 **Select the [Hyper Job Threading] item.**

- This sets whether or not to process multiple jobs simultaneously with a single printer.

[OFF] : Jobs are not processed simultaneously. Image data importing, ripping, and printing is processed in sequence.

[Level 1] : Ripping and printing is processed simultaneously. Up to two jobs can be processed simultaneously.

[Level 2] : Image data importing, ripping, and printing is processed simultaneously. Up to three jobs can be processed simultaneously.

3 **Select or deselect the [Calculate Ink Consumption] check box.**

- Selecting this calculates the ink consumption values and displays them in ☞ "Properties"(P. 28).

4 **Select or deselect the [Lock the job after printing] check box.**

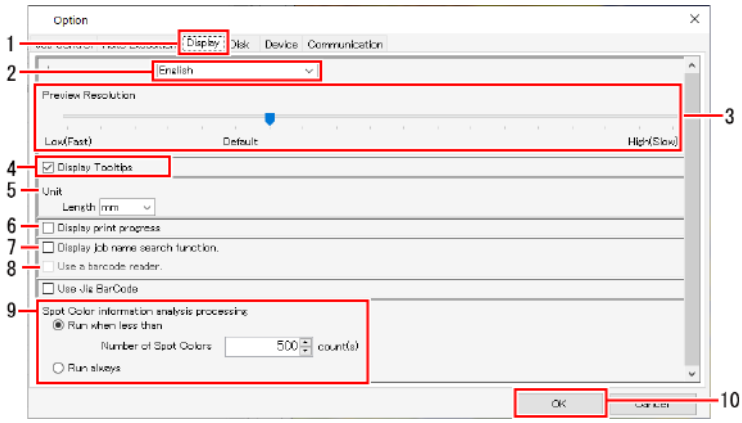
- Selecting this displays a lock symbol for the job after printing, preventing the settings for that job from being edited or deleted.

5 **Click [OK].**

- Settings that have been changed will be applied after restarting RasterLink7.

● Set the display

1 **Select the [Display] tab in the [Environments] - [Option] dialog.**



2 **Select the display language from the [Language] pull-down menu.**

- Set the display language used for RasterLink7.

3 **Adjust the [Preview Resolution] slider.**

- Moving the slider to the right increases the display resolution on the [Preview] window but makes the preview slower.
- Moving the slider to the left reduces the display resolution on the [Preview] window but makes the preview faster.

4 **Select or deselect the [Display Tooltips] check box.**

- When this is selected, simple explanations (tool tips) are displayed for individual items at the mouse cursor position.

5 **Select [Unit].**

- Set the display units for length to mm or inch.

6 **Select or deselect the [Display print progress] check box.**

- If this is selected and connected to the printer,Print progress is displayed during printing. ☞ P. 15

7 **Select or deselect the [Display job name search function.] check box.**

- When this is selected, the job name search input box is displayed.
- The job name search input box enables jobs to be searched. ☞ "Job Name Search"(P. 224)

8 **Select or deselect the [Use a barcode reader.] check box.**

- Selecting this allows search parameters created as barcodes using standard barcode conversion software to be imported to RasterLink7. ☞ "Search Using a Barcode Reader"(P. 226)

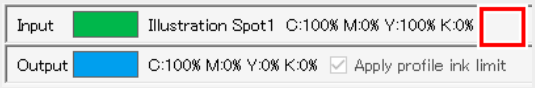
9 Set the movement when image data for which spot colors are specified is loaded.

[Run when less than] : The spot color information is analyzed when the number of spot colors within the image data is smaller than the value set.
If the number of spot colors is equal to or greater than the value set, image data is loaded faster since analysis is not performed.

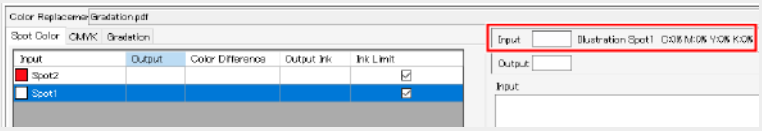
[Run always] : The spot color information is always analyzed regardless of the number of spot colors within the image data.

Important! The following restrictions apply to jobs created without executing [Spot color information analysis processing]:

- The density of the spot color selected in the color replacement list will not be displayed on the [Color Replacement] screen.



The input colors will be indicated as 0 % entirely for CMYK if the selected spot color has been set as a gradation object color.



- The input/output information will not be displayed even when the cursor is hovered over the position for the specified spot color in the preview.

- The spot color position will not be highlighted in the preview even when a spot color has been selected from the color replacement list and the [Display selected color in negative] check box is checked.

- The spot color in the color replacement list will not be selected even when the spot color position is clicked in the preview.
- If single color replacement has been used, the position of the specified spot color will be determined as having no color in the preview. There will be no problem with the actual print.

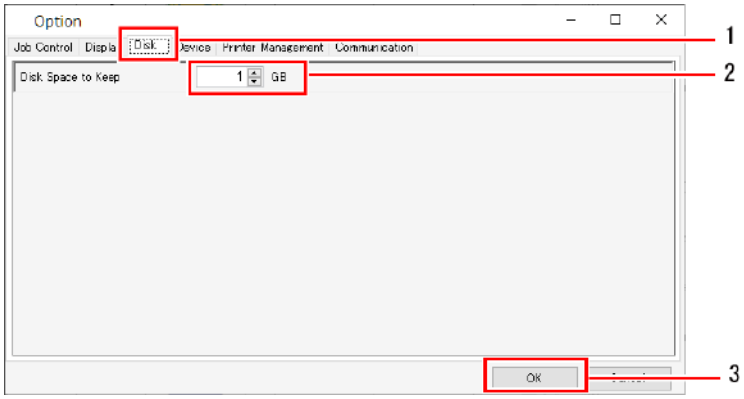
10 **Click [OK].**

- Settings that have been changed will be applied after restarting RasterLink7.

- For more information on the jig barcode function, refer to the separate "Jig Barcode Function Guide".

● Set the disk

1 **Select the [Disk] tab in the [Environments] - [Option] dialog.**



2 **Set a suitable value for [Disk Space to Keep].**

- Set the minimum free space on the hard disk where the work folder is located.
- Job execution is canceled if the space available drops below this setting.

3 **Click [OK].**

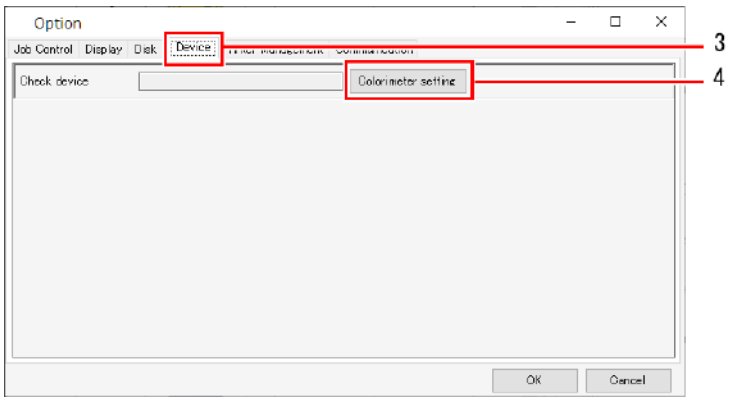
- Settings that have been changed will be applied after restarting RasterLink7.

● Set the colorimeter

1 **Install the driver for the colorimeter to be used.**

2 **Connect the colorimeter to the ripping PC.**

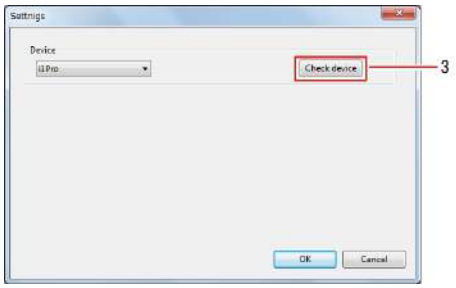
3 **Select the [Device] tab in the [Environments] - [Option] dialog.**



4 **Click [Colorimeter setting].**

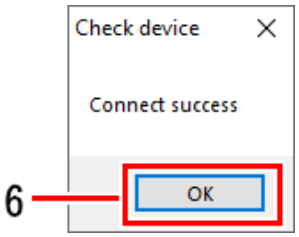
- The [Setup] dialog appears.

5 **Connect the colorimeter to the PC, then click [Check device].**



- The [Check device] dialog appears once the connection has been confirmed.

6 **Click [OK].**



- Settings that have been changed will be applied after restarting RasterLink7.

2.4.3 Printer Management

Sets a printer and function icons.

Printer Management - Functions

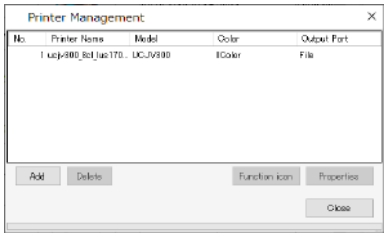
[Printer Management] allows the following operations.

- Add a printer
- Check and edit printer settings
- Delete a registered printer
- Setting a function icon

Printer Management - Screen Layout

● [Printer Management] dialog

Adds or deletes printers and edits the settings.



Printer Management - Operations

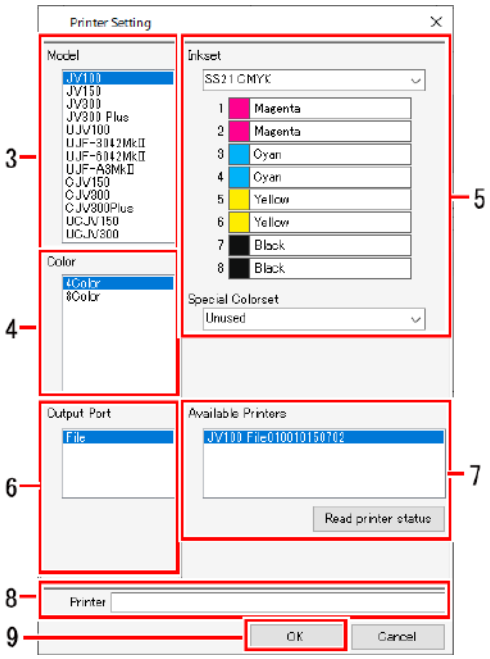
● Add a printer

1 **Select [Environments] - [Printer Management] from the menu.**

- The [Printer Management] dialog appears.

2 **Click [Add].**

- The [Printer Setting] dialog appears.



3 **Select the printer model.**

4 **Select the printer color.**

5 **Select the inkset and special color set that are set in the printer.**

6 **Select the output port type.**

7 **If [USB2.0] or [Ethernet] is selected for [Output Port], select the printer to be connected from [Available Printers].**

- Clicking [Read printer status] updates the [Available Printers] information.

8 **Enter a suitable name.**

9 **Click [OK].**

- Printer addition and the settings are applied.

● Delete a registered printer

1 **Select [Environments] - [Printer Management] from the menu.**

- The [Printer Management] dialog appears.

2 **Click the printer to be deleted.**

3 **Click [Delete].**

- The selected printer will be deleted from the list.

Important! • Deleting a printer also deletes all of the jobs registered to that printer.

● Check and edit registered printer settings

1 **Select [Environments] - [Printer Management] from the menu.**

- The [Printer Management] dialog appears.

2 **Click [Properties].**

- The [Printer Setting] dialog appears.

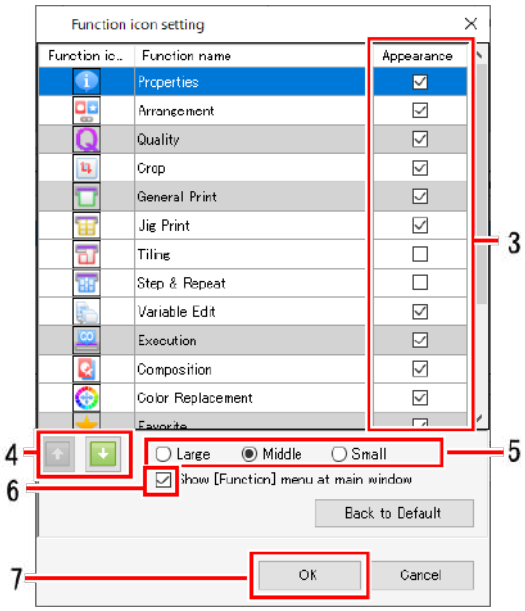
● Setting a function icon

1 **Select [Environments] - [Printer Management] from the menu.**

- The [Printer Management] dialog appears.

2 **Select the target printer, then click the function icon.**

- The [Function icon setting] dialog appears.
- Only those function icons supported by the selected printer are displayed.



3 **Select the [Appearance] check box.**

- Selecting this displays the function icons and unselecting it hides the icons.
  Note that the check box cannot be unselected if the function name background is gray.

4 **Select a function, then click the [] icon.**

- The function icon display order is refreshed.

5 **Select the function icon size.**

6 **Select or deselect the [Show [Function] menu at main window] check box.**

- Selecting this displays the menu bar and unselecting it hides the menu bar.

7 **Click [OK].**

- The function icon settings are applied.

- Clicking [Back to Default] restores the initial settings.

2.4.4 Update notify settings...

Sets application update notifications.

Update notify settings... - Functions

[Update notify settings] allows the following operations.

- Receive RasterLink7 update information
- Set to receive device profile update information

● Conditions

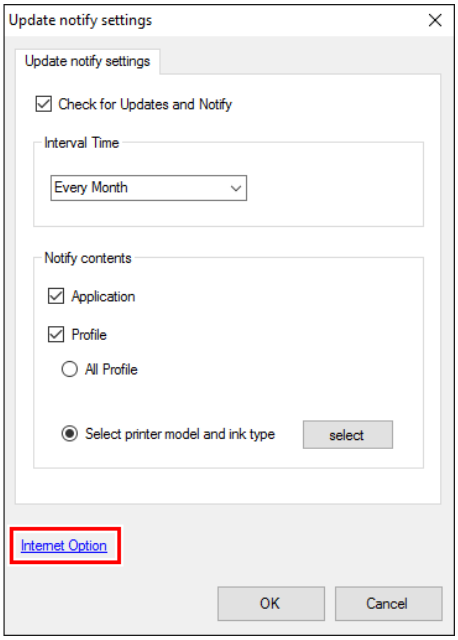
Notifications cannot be received in the following cases.

- When the PC on which RasterLink7 is installed is not connected to the Internet
- When the RasterLink7 license has not been authenticated

Update notify settings - Screen Layout

● [Environments] - [Update notify settings] dialog

Sets notifications.



Important! When using a proxy server

- Set the proxy server in [Internet Option].

Update notify settings - Operations

● Set to receive RasterLink7 update information

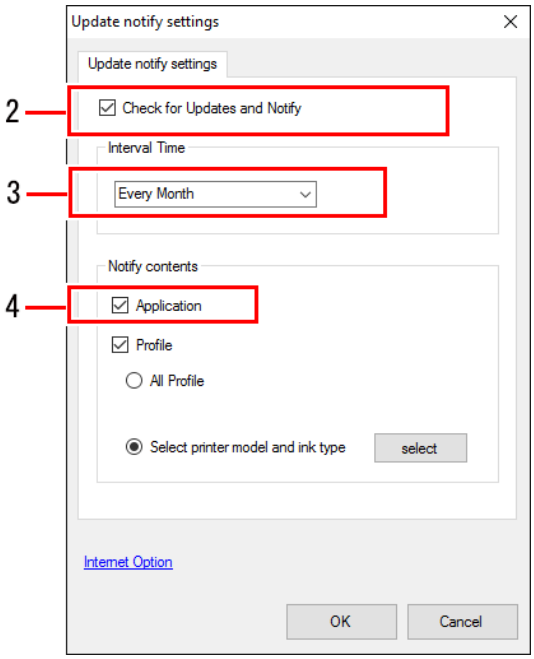
1 **Select [Environments] - [Update notify settings] from the menu.**

- The [Update notify settings] dialog appears.

2 **Select the [Check for Updates and Notify] check box.**

Important! Notifications cannot be used in the following cases, even when the [Check for Updates and Notify] check box is selected.

- When the PC is not connected to the Internet
- When the license has not been authenticated



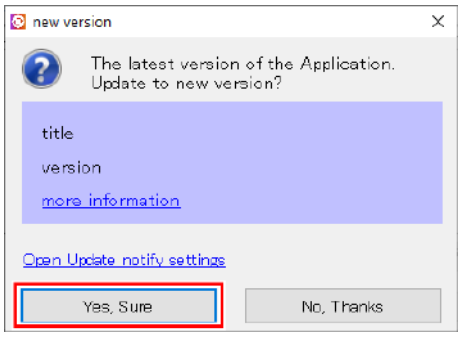
3 **Select the interval for checking for new information from the [Interval Time] list.**

- This can be selected as [Every Launch], [Every Day], [Every Week], or [Every Month].

4 **Select the [Application] check box for [Notify contents].**

5 **Click [OK] to restart RasterLink7.**

- This enables the notification settings.
- A dialog appears on startup if new information exists.
- Clicking [Yes, Sure] launches program updating.



● Set to receive device profile update information

1 **Select [Environments] - [Update notify settings] from the menu.**

- The [Update notify settings] dialog appears.

2 **Select the [Check for Updates and Notify] check box.**

Important! Notifications cannot be used in the following cases, even when the [Check for Updates and Notify] check box is selected.

- When the PC is not connected to the Internet
- When the license has not been authenticated

3 **Select the interval from the [Interval Time] list.**

- This can be selected as [Every Launch], [Every Day], [Every Week], or [Every Month].

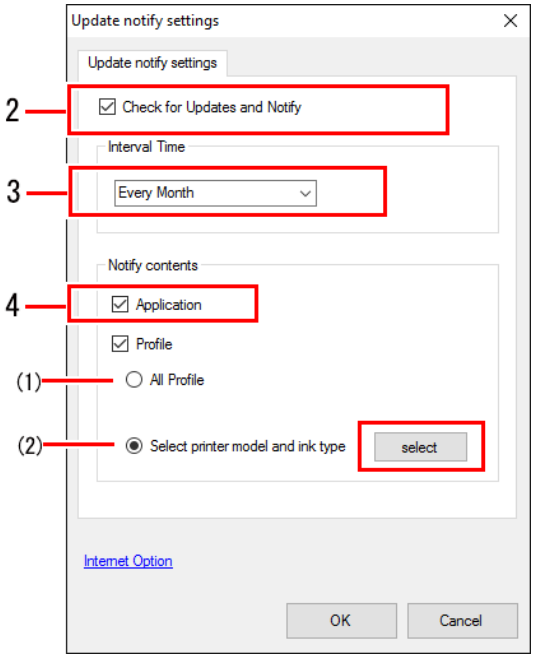
4 **Select the [Profile] check box for [Notify contents].**

5 Select the notification items.

(1) [All Profiles]

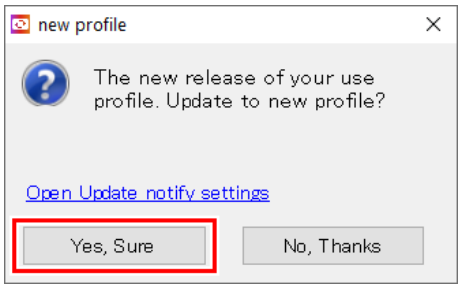
(2) [Select printer model and ink type]

- Clicking [Setup] displays the [Update notify settings] dialog, allowing the printer and ink to be selected.



6 Click [OK] to restart RasterLink7.

- This enables the notification settings.
- A dialog appears on startup if new information exists.
- Clicking [Yes, Sure] launches the update tool. Download the latest profile.



2.4.5 Setup Work Folder

Changes the work folder location.

Setup Work Folder - Functions

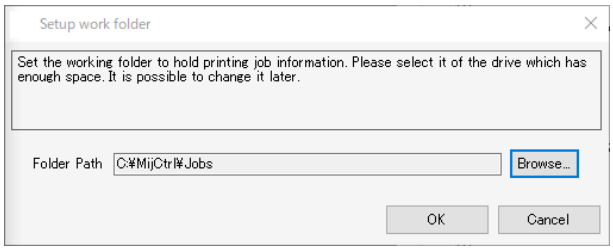
[Setup Work Folder] allows the following operations.

- Change the work folder location to a different disk

Setup Work Folder - Screen Layout

● [Environments] - [Setup work folder] dialog

Changes the work folder location.



Setup Work Folder - Operations

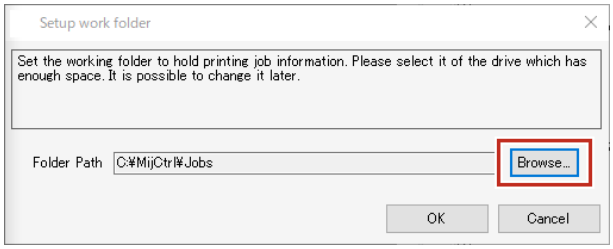
● Change the work folder location to a different disk

1 **Select [Environments] - [Setup work folder] from the menu.**

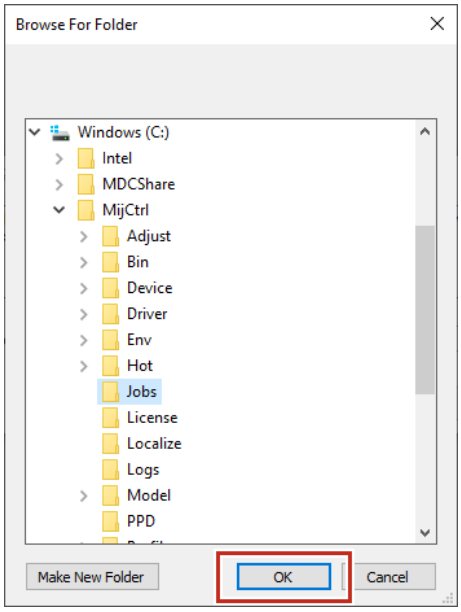
- The [Setup work folder] dialog appears.

2 **Click [Browse...] on the [Setup work folder] dialog.**

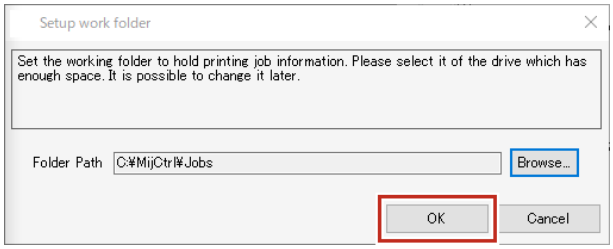
- The folder browse dialog appears.



3 **Select the work folder to be used, then click [OK].**



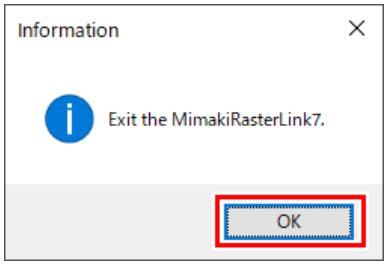
4 **Click [OK] on the [Setup work folder] dialog.**



Important!

- Select a folder within a disk that has sufficient free space.
- The following folders cannot be selected as work folders.
  - The disk root folder
  - The RasterLink7 installation folder

5 **The RasterLink7 exit confirmation dialog appears once the work folder has been changed. Click [OK].**

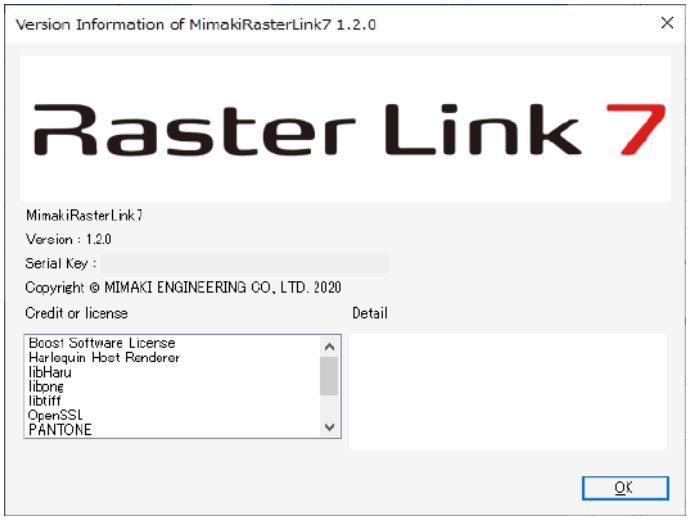


- RasterLink7 cannot be operated until the work folder changes are complete.
- RasterLink7 shuts down automatically.
- The new work folder can be used once RasterLink7 has been restarted.

2.5 About

2.5.1 Version

Selecting [About] from the menu displays the RasterLink7 serial key used for license authentication and other information.



Chapter 3 Advanced Operations

This chapter

Explains the advanced printing operations available for individual printer models.

3.1 Overview of Advanced Operations

RasterLink7 can be used to perform various advanced operations with compatible printers.

● Print & Cut

Prints and cuts with print & cut compatible models such as the CJV300 Plus and UCJV300.

☞ "Print & Cut"(P. 213)

● Multilayer Printing

This function prints multiple layers, utilizing the features of UV ink.

☞ "Multilayer Printing"(P. 219)

● ID Cutting

This function prints an ID between the register marks.

☞ "ID Cutting"(P. 220)

● Braille Printing

This function allows easy Braille printing simply by setting a spot color with RasterLinkTools for the created Braille data portion.

☞ "Braille Printing"(P. 221)

3.2 Operation Details

3.2.1 Print & Cut

Print & Cut - Functions

Prints and cuts with print & cut compatible models such as the CJV300 Plus and UCJV300.

● Conditions

Original image data

File format	ps, eps, pdf
Object	Vector data
Color	The spot color prefixed by "CutContour" used as the color of the path to be cut

Use in conjunction with other functions

Print & Cut can be used in conjunction with the following settings:

Function	Intercompatibility
[Arrange]*1	Yes
[Crop]	No
[Tiling]	No
[Step & Repeat]	No
[Special plate]	Yes
[Composite]*2	Yes
[Color Replacement]	Yes

*1. Arranged print & cut jobs

*2. Combination of print & cut and print jobs only

Important! • Print & Cut jobs for multi-page jobs are not supported.

● Create an object for cutting in Adobe Illustrator

- Set a spot color for the cutting path on the object to be cut.
- Prefix the spot color name with "CutContour".

- Other characters can be included after "CutContour" (like CutContourCut1 and CutContourHalf). This enables multiple paths to be created with different cutting conditions.

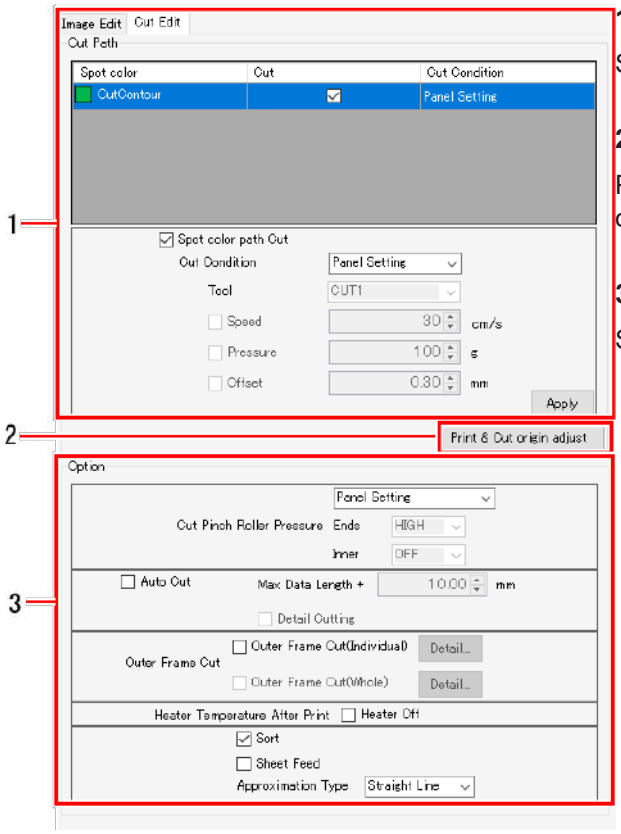
Important! • Single-byte alphanumeric characters must be used for the characters added after "CutContour".

Add a path (line) with the special color name "CutContour" around the perimeter of the illustration as a cutting line.

- Using RasterLinkTools enables objects for cutting to be created easily in Adobe Illustrator/ CorelDRAW. ☞ "Create a Cut Path Around an Object"(P. 238)
- Please check ☞ "The same location is cut twice or cut paths are not recognized."(P. 274) as a precaution when creating an object for cutting with Adobe Illustrator.

Print & Cut - Screen Layout

● [General Print] - [Cut Edit] tab



1. [Cut Path]

Sets the cutting method.

2. [Print & Cut origin adjust]

Prints & cuts an adjustment pattern to adjust the origin position.

3. [Option]

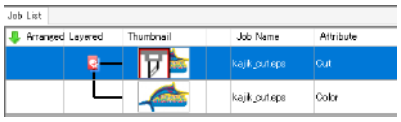
Sets the cutting options.

Print & Cut - Operations

● Set a print & cut job

Import print & cut data, then configure the various settings.

1 Import the print & cut data.



- Importing one set of data automatically creates a job with two attributes (cut and color).
- The two jobs are automatically combined.
- The [ ] icon indicating cutting is displayed on the thumbnail for the cut job.

2 Select one spot color from the spot color list displayed for [Cut Path] on the [General Print] - [Cut Edit] tab.

- Different cutting methods can be set for each spot color.

3 If [Spot color path Cut] check box is not selected, select it. (The default value is On)

- The path created using the selected spot color will be cut.

4 Select the conditions from the [Cut Condition] list.

- Selecting [User Definition] allows the cutting method to be set.

5 Sets the cutting method.

[Tool]	:	Select the cutter.
[Speed]	:	Set the cutting speed.
[Pressure]	:	Set the cutter pressure.
[Offset]	:	Correct the cutter center position.

- Refer to the operation manual for the corresponding printer for more information on cut conditions, as the appropriate values will vary depending on the media and cutter.

6 Set the cutting options in [Option]

- Cut Pinch Roller Pressure
  Sets the pinch roller pressure during cutting.
- [Auto Cut]
  Selecting this automatically cuts the media once cutting has ended.

[Max Data Length +] : Sets the length from the end of the job to the position where it is to be cut.

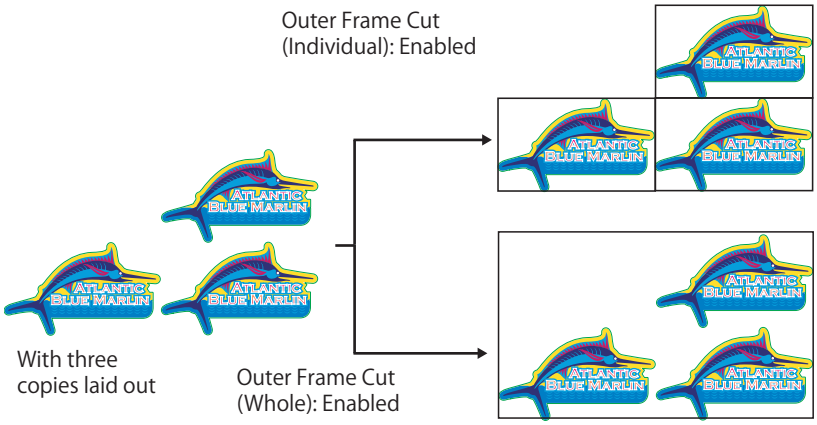
[Detail Cutting] : Selecting this cuts jobs laid out as copies after each line printed.

- [Outer Frame Cut]
  Cuts the rectangle forming the job border or the rectangle of the entire job.

[Outer Frame Cut (Individual)] : Selecting this cuts a rectangle for each job.

[Outer Frame Cut (Whole)] : Selecting this cuts a rectangle for the entire job.

Clicking [Detail] allows the cutting conditions to be set.



- [Heater Temperature After Print]
  Selecting the [Heater Off] check box turns off the heater when cutting.

- Depending on the media, heat from the heaters may cause distortion, reducing the cutting accuracy.
  The heaters should be turned off in such cases.

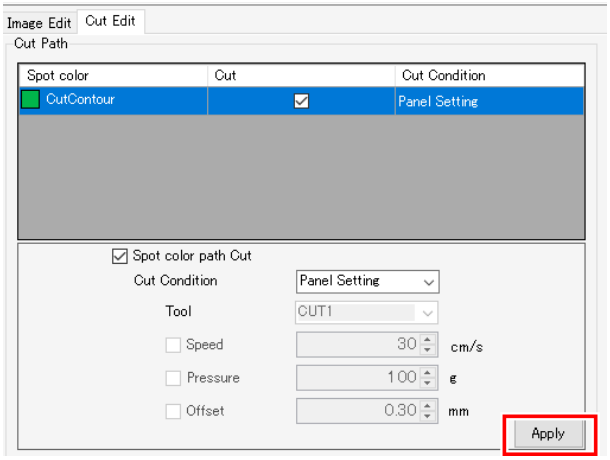
- [Sort]
  Selecting this sorts according to the optimum cutting order to reduce the cutting time.
- [Sheet Feed]
  When selecting this, feed the media before cutting to check if the job can be cut.
- [Approximation Type]
  Selects the method used for cutting curves.

[Straight Line] : Cuts by approximating curves to a series of short straight lines. This reduces quality but increases speed.

[Arc] : Cuts by approximating curves to a series of short arcs. This reduces quality but increases speed.

7 **Click [Apply].**

- The settings are applied.



8 **Select the [Execute] menu, then execute print & cut.**

- For more information, refer to ☞ "Execute"(P. 98).

● Print & cut origin adjustment (with CJV300, CJV150, CJV300 Plus, and UCJV300)

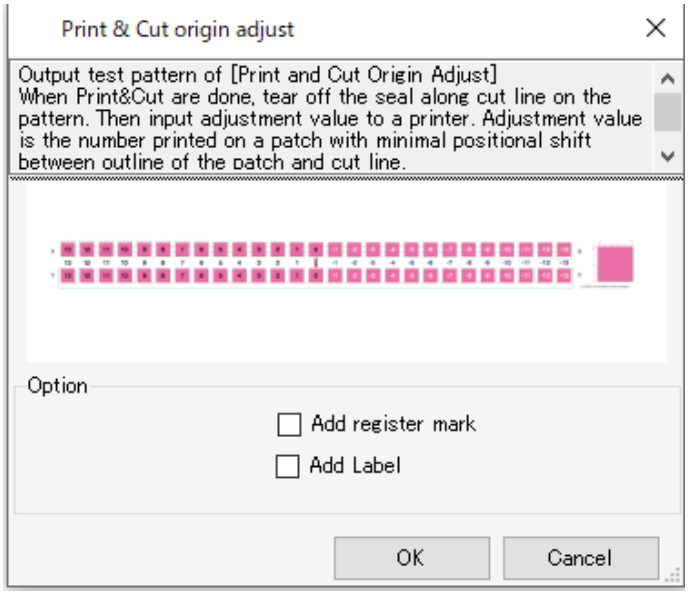
Adjusts the print & cut origin by printing and cutting an adjustment pattern.

1 **Select a job in the [Job List].**

2 **Set the print & cut origin to the print conditions to be applied on the [Print Condition] screen.**

3 **Click [Print & Cut origin adjust] on the [General Print] - [Cut Edit] tab.**

- The [Print & Cut origin adjust] dialog appears.



4 **Set the register marks and labels.**

- Selecting [Add register mark] adds register marks before printing.
- Selecting [Add label] adds information about the resolution, number of paths, and waveform at the top left of the adjustment pattern.

5 **Click [OK].**

- Printing and cutting of the adjustment pattern starts.

6 **Check the adjustment pattern printed and cut, then enter the X and Y adjustment values on the printer input screen.**

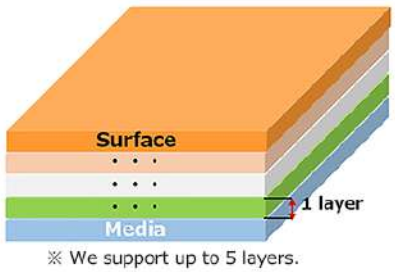
Important!

- If the resolution or paths have been altered after adjusting the print & cut origin, the print & cut origin must be readjusted.
- The print & cut origin adjustment job will be deleted from the job list automatically once the adjustment pattern has been printed and cut.
- The print & cut origin adjustment job will not be deleted automatically if the data is cleared or an error occurs while the adjustment pattern is being printed and cut.
  In such cases, jobs should be deleted manually.

3.2.2 Multilayer Printing

Multilayer Printing - Functions

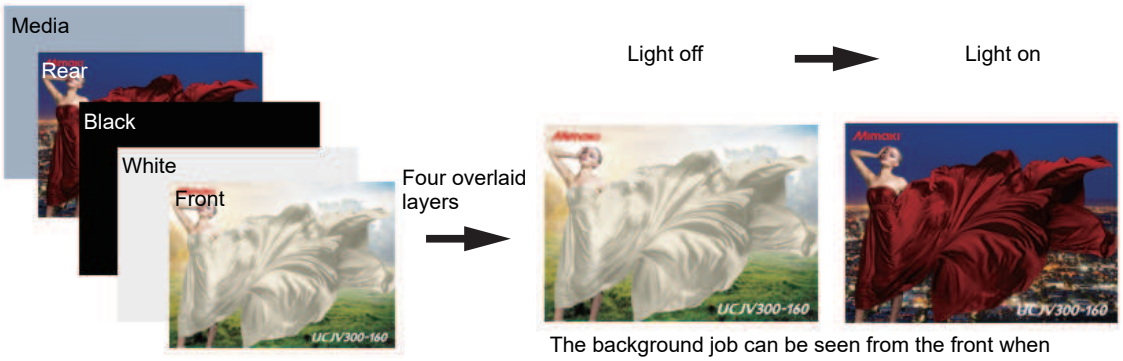
This function prints by stacking 4 or 5 print layers, utilizing the features of UV ink.
This allows new print styles not achievable with a single layer.



※ We support up to 5 layers.

● Four-layer Night & Day printing

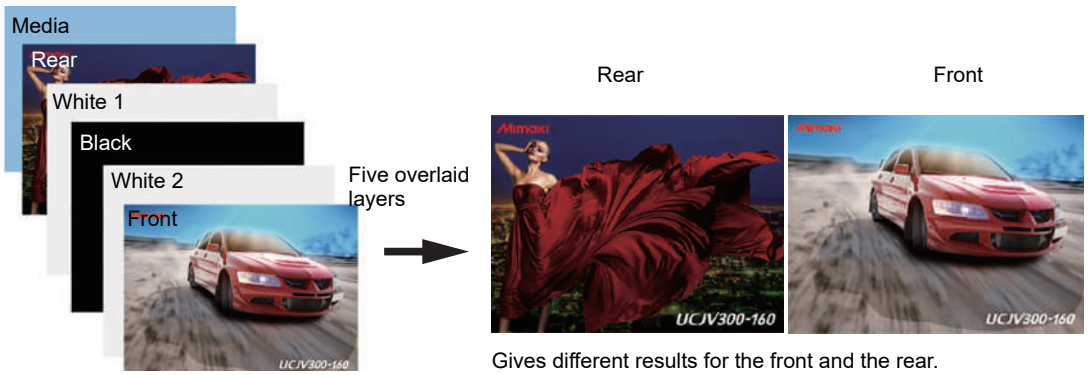
Jobs are printed as four overlaid layers.
This gives different results depending on whether the sheet is backlit or not backlit.



The background job can be seen from the front when illuminated from the rear.

● Five-layer printing

Jobs are printed as five overlaid layers.
This gives different results for a single media sheet depending on whether it is viewed from the front or the rear.



Gives different results for the front and the rear.

● Conditions

Compatible models : UCJV300

For more information on multilayer printing, refer to the separate "Multilayer Printing Guide".

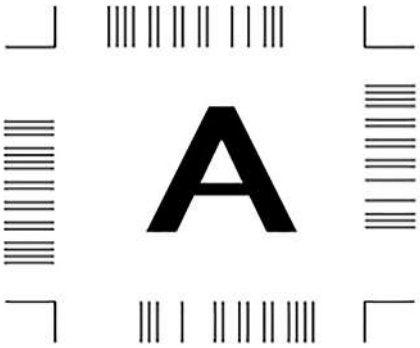
3.2.3 ID Cutting

ID Cutting - Functions

This function prints an ID between the register marks.

- This function permits cutting simply by detecting the register marks.
- This function makes cutting easier after post-processing, including lamination after printing.
- It reduces cutting errors, as there is no need to select cut data before cutting.
- When used in conjunction with FineCut, this allows the use of functions, including functions for specifying the cutting start position required for flatbed plotters and specifying cutting direction which cannot be set in RasterLink7.

● Typical ID printing



For information on models supporting ID cutting and details of ID cutting, refer to the separate "ID Cut Guide (Using FineCut)" or "UCJV300/150, CJV300 Plus series ID Cut Guide".

3.2.4 Braille Printing

Braille Printing - Functions

This function allows easy Braille printing simply by setting a spot color with RasterLinkTools for the created Braille data portion.

This function allows overlaid Braille printing on color jobs without the need to set the number of prints.

For more information on Braille printing, refer to the separate "Braille Printing Guide".

Chapter 4 Useful Functions

This chapter

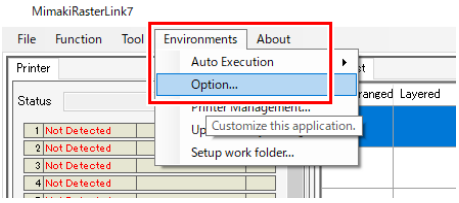
Explains functions that are handy to know.

4.1 Job Name Search

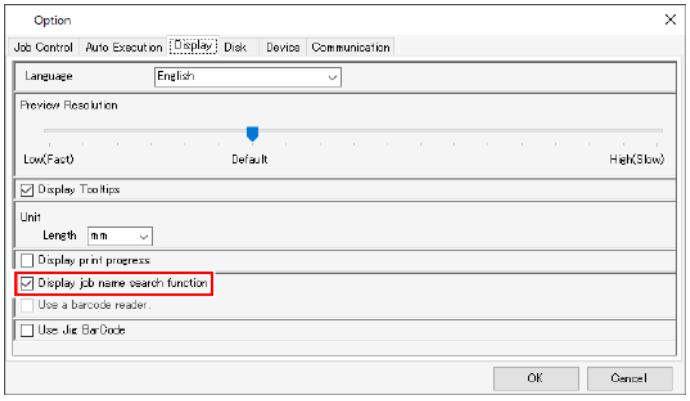
Lets you search for jobs using the job name.
This is useful when a large number of jobs are registered and it's hard to find a particular job.

4.1.1 Display Job Name Search Function

1 **Select [Environments] - [Option] - [Display] tab.**

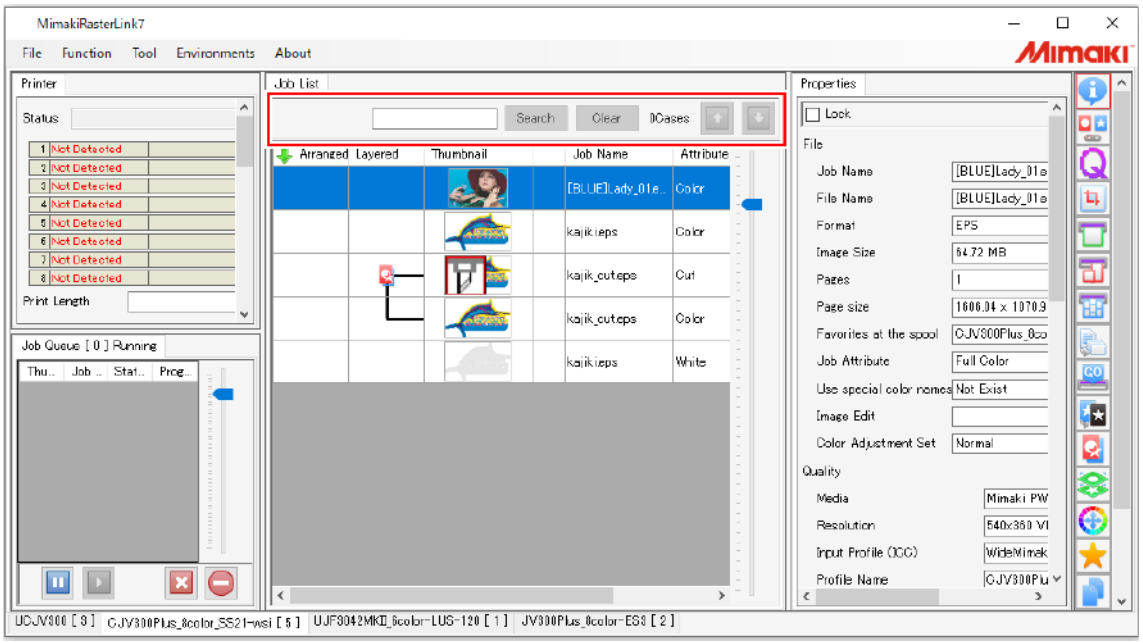


2 **Select the [Display job name search function.] check box.**



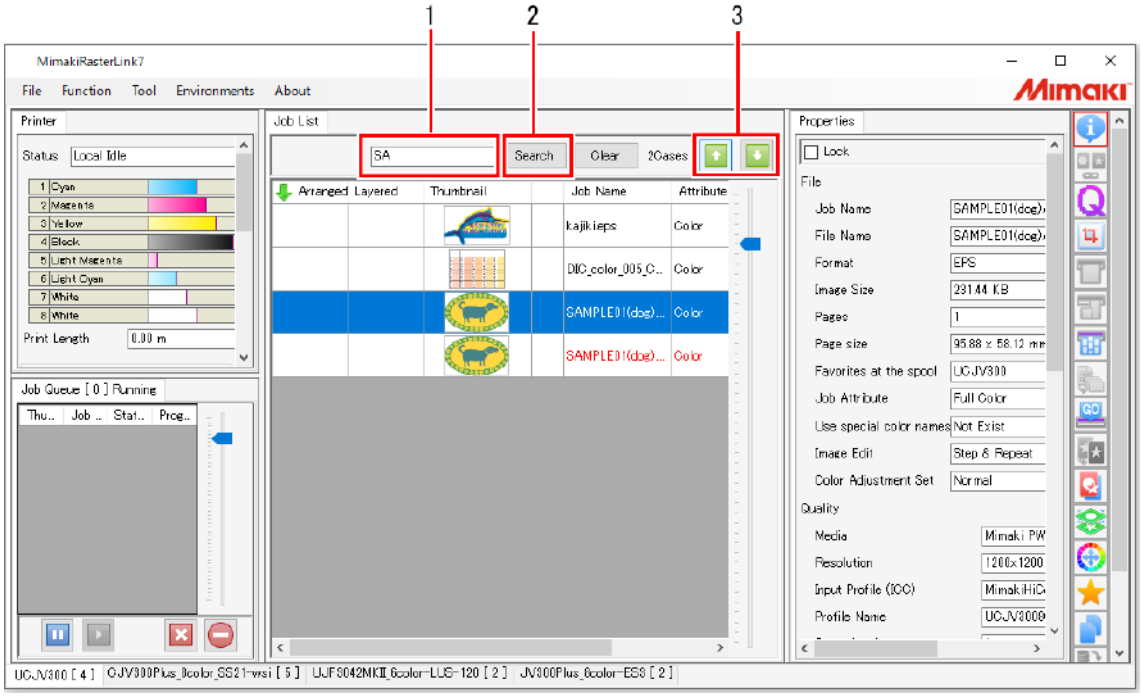
3 **Restart RasterLink7.**

- The job search is displayed.



4.1.2 Search for a Job

Searches for jobs by job name.



1 **Enter any part of the job name in the job name input box.**

- The function searches for initial matches and is case-sensitive.

2 **Click [Search].**

- Job names that match the search parameters are displayed in red.
- Job names that do not match the search parameters are displayed in black and cannot be selected.
- Clicking [Clear] cancels the search.

3 **Click the [ ] icons, then select the required job.**

4.1.3 Search Using a Barcode Reader

Job search parameters can be read in using a barcode reader for searching.

Important! Barcode reader specifications

- Must feature a COM/RS-232C interface.
- Must use one-dimensional barcodes.
- Must be able to set an "ENTER" code for the keyboard end character.
- Recommended model: iTex ITL-3000/3000Plus
- Barcode type: CODE39 or CODE128

QR codes and a barcode reader capable of reading QR codes will be required for Japanese and other double-byte characters.

Important!

- This function may not operate if RasterLink6Plus with this function enabled and RasterLink7 are running at the same time.
  If this occurs, either exit RasterLink6Plus or disable this function with RasterLink6Plus.

1 Connect the barcode reader to the PC.

Important!

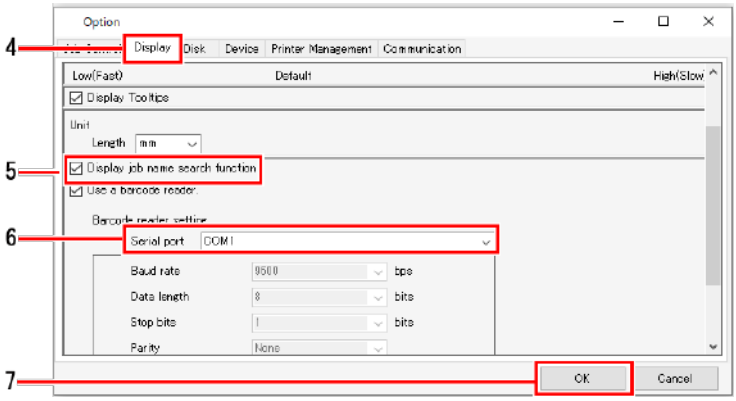
- Before connecting the barcode reader, install the barcode reader driver on the PC on which RasterLink7 is installed.

2 Convert the job search parameters into a barcode.

- Use barcode conversion software.

3 Print the barcode created on documents such as work instructions.

4 Select [Environments] - [Option] - [Display] tab in RasterLink7.



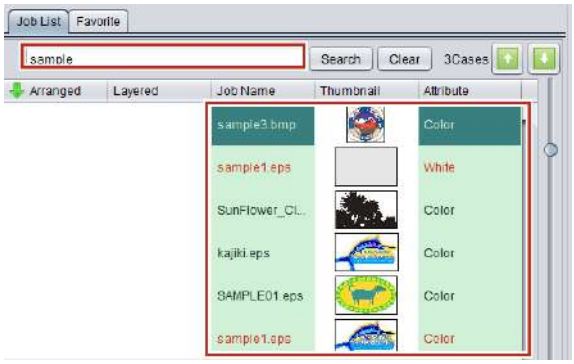
5 Select the [Use a barcode reader.] check box.

6 Select a barcode reader connected in [Serial port].

7 Click [OK].

8 Read in the barcode using the barcode reader.

- The corresponding job will be searched for in RasterLink7.



4.2 FAQ Page Link

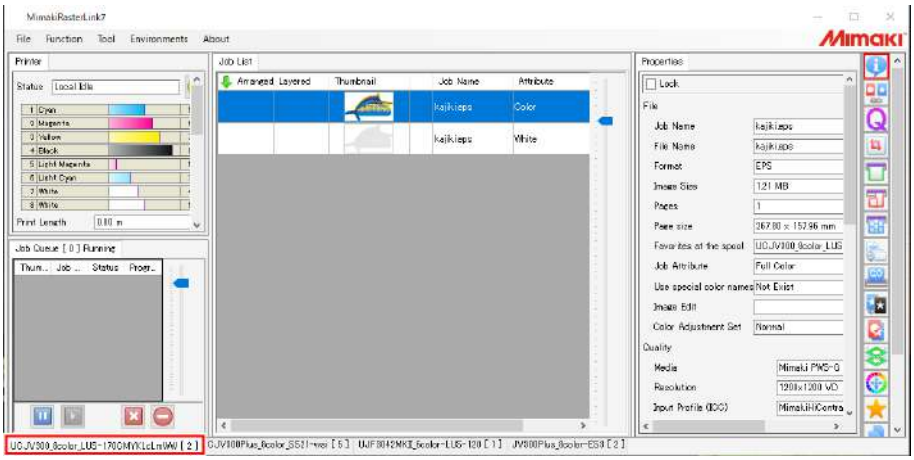
If you are unsure about anything while using RasterLink7, refer to the FAQ page.

- FAQ stands for "frequently asked questions" and lists frequently asked questions together with their answers.

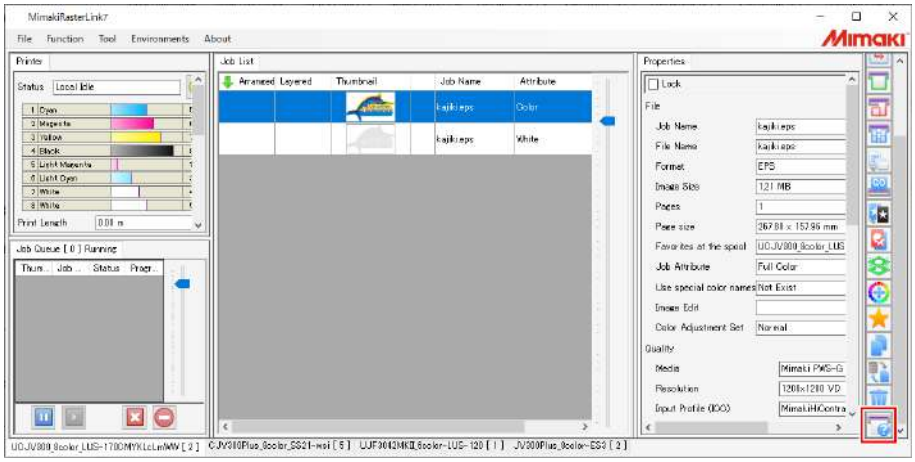
4.2.1 Show the Printer FAQ Page

If you are unsure about anything while using the printer, you can click the printer [ ] icon to display the corresponding printer FAQ page in your web browser.

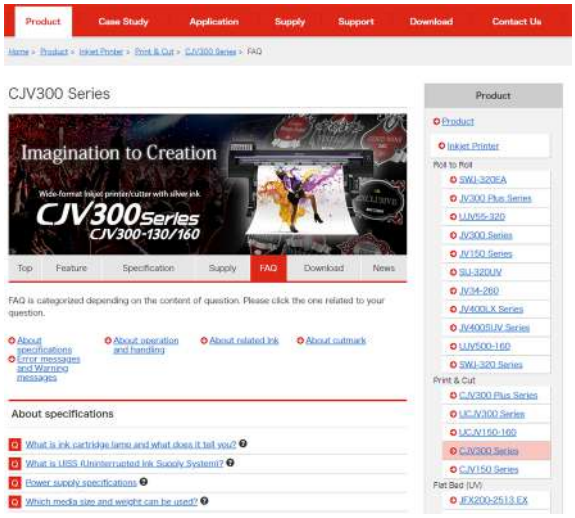
1 Select the printer by switching the printer on the screen.



2 **Click the [ ] icon.**



- The FAQ for the selected printer is displayed in your web browser.



Chapter 5 RasterLinkTools

This chapter

Explains the RasterLinkTools plugin software for Adobe Illustrator.

5.1 RasterLinkTools - Functions

RasterLinkTools is a plugin software application for use with Adobe Illustrator to create print & cut data and image data for special color jobs.

This is installed separately from RasterLink7. For more details about the installation procedure, refer to the separate "RasterLink7 Installation Guide".

Important!
- Print & cut data created using RasterLinkTools cannot be used as print & cut data with RasterLink series software such as RasterLinkPro5 or earlier.

RasterLinkTools allows the following operations:

- Create a Cut Path
- Create a Cut Path Around an Object
- Extract outlines from image data without a path
- Save data to RasterLink7
- Create composite data for a special color job.
- Create data for multilayer printing
- Create data for Braille printing
- Update the RasterLinkTools Settings
- Check for RasterLinkTools Updates

5.2 RasterLinkTools - Screen Layout

Select [Window] - [Mimaki RasterLink] in Adobe Illustrator.

- The [Mimaki RasterLink] window opens.

● [Mimaki RasterLink] window

● In the case of CorelDRAW:

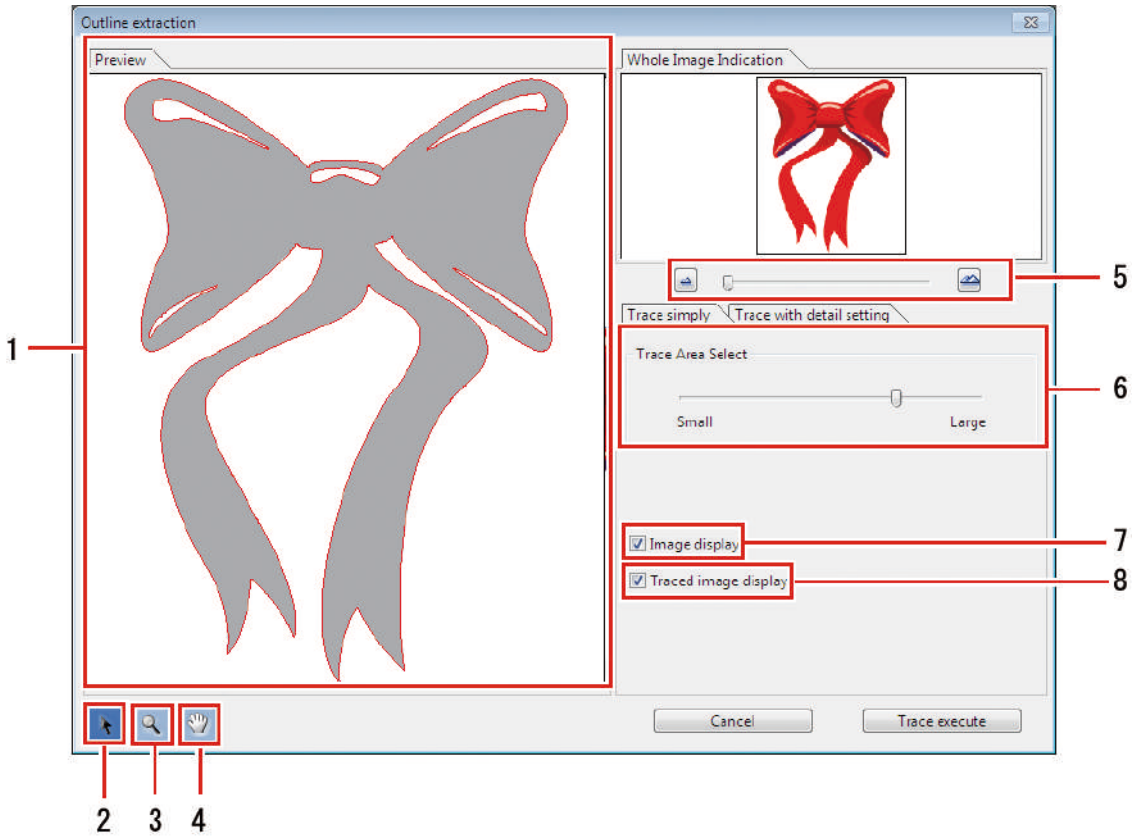
A tool icon will be displayed when the RasterLinkTools is installed.

Important!

- If Mimaki's FileCut cutting plug-in is installed after the RasterLinkTools has been installed, the tool icon for the RasterLinkTools will be hidden. For details, refer to [When RasterLinkTools for CorelDRAW and FineCut have been installed] in the Installation Guide.

● [Outline Extraction] screen - [Trace simply] tab

Select [File] - [RasterLink] - [Outline Extraction] or click [Window] - [Mimaki RasterLink] - [ ] icon to display the [Outline Extraction] screen.



1 [Preview] tab

- Displays the image (monochrome) and tracing results.

2 

- Moves the entire object displayed.

3 

- Enlarges and reduces the preview display size.
- Clicking on the preview enlarges the display size.
- Clicking while pressing the [Alt] key (Windows) or [Option] key (Macintosh) reduces the preview size.

4 

- Modifies the area in which the object is displayed.

5 

- Alters the preview display magnification.

6 **[Trace Area Select]**

- Drag the slider to select the part to be traced.
- Moving the slider toward [Small] traces a narrower area.
- Moving the slider toward [Large] traces a wider area.

7 **[Image Display]**

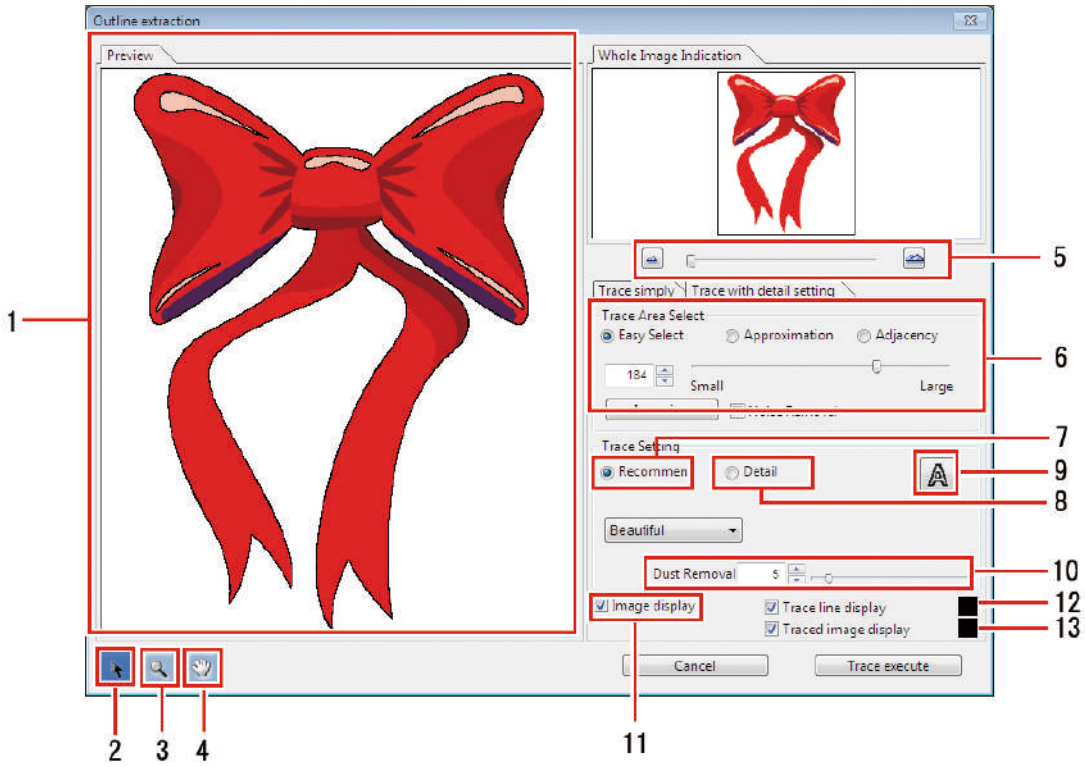
- Sets whether or not to display the original image in the preview.
- When this is selected, the trace area selected in [Trace Area Select] is shown in gray.
- This allows you to check the lines to be extracted and to compare the trace results against the original image.

8 **[Traced image display]**

- Sets whether or not to display the trace results in the preview.

● [Outline Extraction] screen - [Trace with detail setting] tab

Select [File] - [RasterLink] - [Outline Extraction] or click [Window] - [Mimaki RasterLink] - [ ] icon to display the [Outline Extraction] screen.



1 [Preview] tab

- Displays the image and trace results.

2 [ ]

- Moves the entire object displayed.

3 [ ]

- Enlarges and reduces the preview display size.
- Clicking on the preview enlarges the display size.
- Clicking while pressing the [Alt] key (Windows) or [Option] key (Macintosh) reduces the preview size.

4 [ ]

- Modifies the area in which the object is displayed.

5 [ ][ ]

- Alters the preview display magnification.

6 [Trace Area Select]

7 [Trace Setting (recommended setting)]

8 **[Trace Setting (detail setting)]**

9 

- Sets whether or not to display the trace results in the preview.

10 **[Dust Removal]**

- Removes flecks not exceeding the size set in points.

11 **[Image Display]**

- When this is selected, the image is displayed in the preview.

12 **[Trace line display]**

- When this is selected, the trace area is displayed in the preview in the color specified.

13 **[Traced image display]**

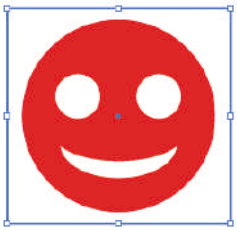
- When this is selected, the trace results are displayed in the preview in the color specified.

5.3 RasterLinkTools - Operations

5.3.1 Create a Cut Path

Creates a cut path for printing & cutting using RasterLink7. ☞ "Print & Cut"(P. 213)

1 **Select the path to be cut in Adobe Illustrator.**



2 **Click [Window] - [Mimaki RasterLink] -[ ] icon.**

- Or select [File] - [RasterLink] - [Convert Cut Line].
- In the case of CorelDRAW:
  Select [RasterLink] - [Convert Cutline] from the [Tools] menu.

- The color of the path to be cut will be set to the spot color named "CutContour" and converted to no filling.

5.3.2 Create a Cut Path Around an Object

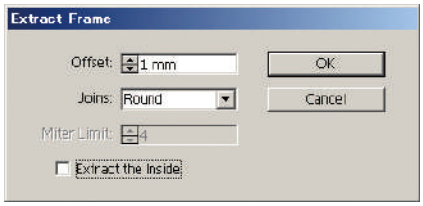
Create a cut path following the perimeter of an object.
Cut paths can also be created to cut out white space (internal areas) inside the object.

1 Select all objects for creating the cut path in Adobe Illustrator.

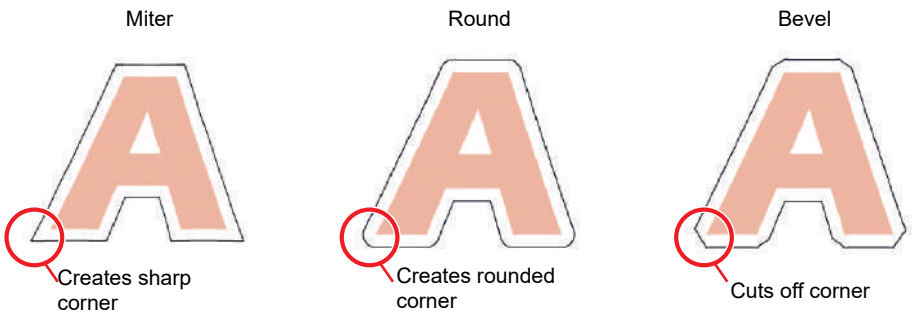
2 Click [Window] - [Mimaki RasterLink] -[ ] icon.

- Or select [File] - [RasterLink] - [Extract Frame].
- The [Extract Frame] dialog appears.
- In the case of CorelDRAW:
  Select [RasterLink] - [Extract Frame] from the [Tools] menu.

3 Set the cut path in the [Extract Frame] dialog.

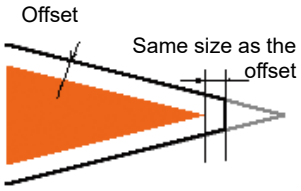


[Offset] : Sets the distance from the object to the cut path.
[Joins] : Selects from one of three styles: "Miter", "Round", or "Bevel".

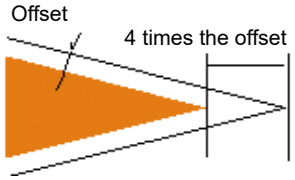


[Miter Limit] : Allows the angle ratio to be set when "Miter" has been selected.

- When Miter Limit is set to 1
  The cut path angle is cut off at a distance from the object corner corresponding to the offset.

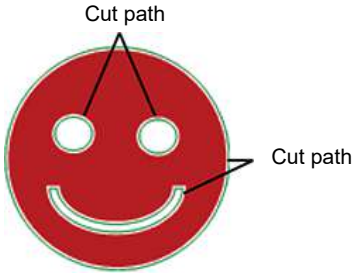


- When Miter Limit is set to 4
  The cut path angle is extended to a distance corresponding to four times the offset from the object corner.
  In this diagram, the cut path corner is not cut off. The corner shape will remain unchanged for any Miter Limit set to 4 or greater.

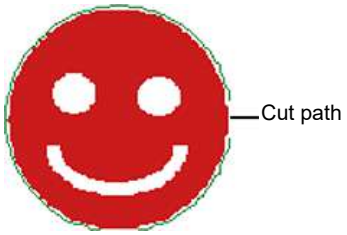


[Extract the Inside] : When this is selected, cut paths are created to cut out white space (internal areas) inside the object as well as outside the object.

- On
  Cut paths are also created for white areas inside the object.



- Off
  Cut paths are created only on the perimeter of the object.



- The color of the path to be cut will be set to the spot color named "CutContour" and converted to no filling.

- The initial color settings for created path lines are as follows.
  ・ Name: CutContour
  ・ Color type: Special
  ・ Color: Cyan 100%, Magenta 0%, Yellow 100%, Black 0%
- The path colors must be altered in the following cases:
  ・ When multiple cut condition lines have been created within the same data ☞ "Print & Cut"(P. 213)
  ・ When the cut paths will also be printed, but you wish to use different colors to the default settings ☞ P. 127

5.3.3 Extract an Object Outline

Select the outline of raster objects such as BMP, JPEG, and TIFF images, then create paths.
Colors can be set to extract only outlines for areas of the same color.

● Trace simply

Extracts outlines for raster objects.

1 **Select the objects for extracting outlines in Adobe Illustrator.**

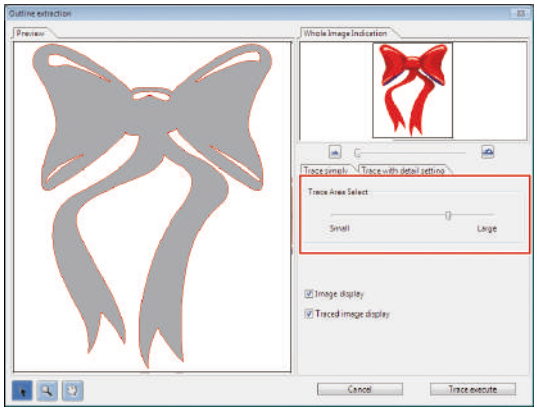
2 **Click [Window] - [Mimaki RasterLink] -[ ] icon.**

- Or select [File] - [RasterLink] - [Outline Extraction].
- The [Outline Extraction] dialog appears.

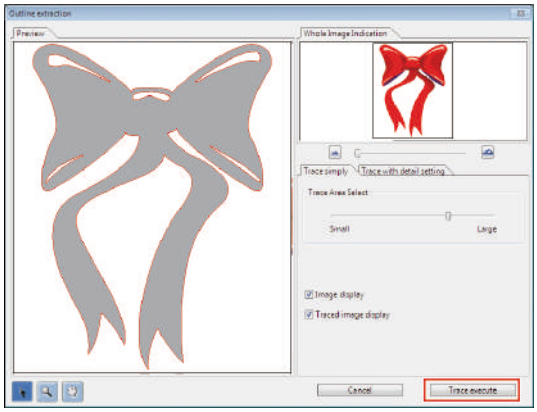
3 **Select the [Trace simply] tab in the [Outline Extraction] dialog.**

4 **To alter the trace area, drag the Trace Area Select slider.**

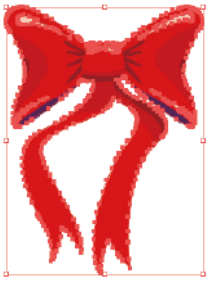
- This alters the trace area.
- The trace results are displayed in the preview.



5 **Click [Trace execute].**



- A path is created in [RL Trace Layer].



- The paths created can be used in ☞ "Print & Cut"(P. 213) by following the steps described in ☞ "Create a Cut Path Around an Object"(P. 238).
- Different cutting conditions can be set for sets of multiple layers. ☞ "Print & Cut"(P. 213)
- Each time the button is clicked, a path is created on a new layer in the sequence [RL Trace Layer 1], [RL Trace Layer 2], etc.

● Trace with detail setting

Extracts a raster object outline using advanced settings.
This should be used for more detailed setting of objects traced using simple tracing or when tracing special colors or area outlines.

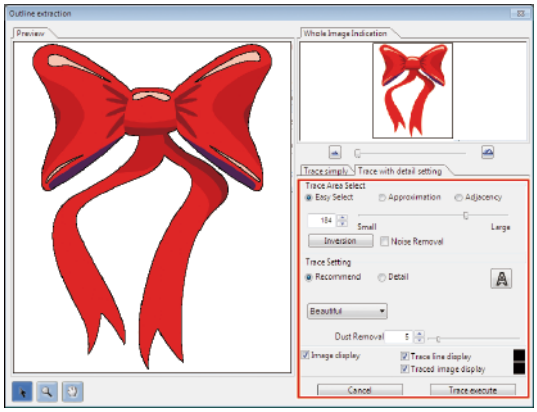
1 **Select the objects for extracting outlines in Adobe Illustrator.**

2 **Click [Window] - [Mimaki RasterLink] -[ ] icon.**

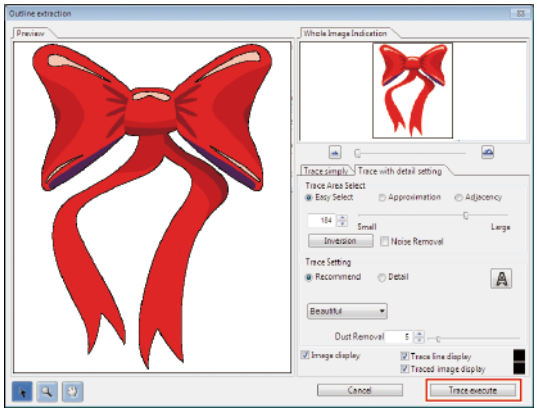
- Or select [File] - [RasterLink] - [Outline Extraction].
- The [Outline Extraction] dialog appears.

3 **Select the [Trace with detail setting] tab in the [Outline Extraction] dialog.**

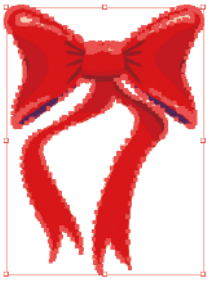
4 **Set the detailed tracing method in the Trace Area Select and trace settings.**



5 Click [Trace execute].



- A path is created in [RL Trace Layer].



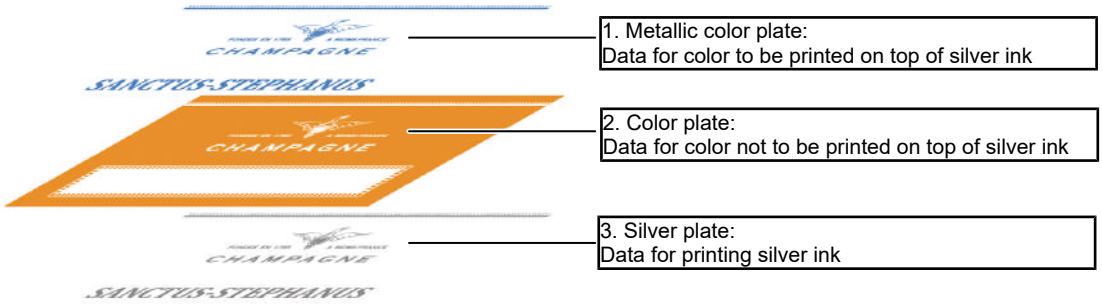
- The paths created can be used in ☞ "Print & Cut"(P. 213) by following the steps described in ☞ "Create a Cut Path Around an Object"(P. 238).
- Different cutting conditions can be set for sets of multiple layers. ☞ "Print & Cut"(P. 213)
- Each time the button is clicked, a path is created on a new layer in the sequence [RL Trace Layer 1], [RL Trace Layer 2], etc.

5.3.4 Create Image Data for a Special Color Job

Creates image data for special color jobs using Adobe Illustrator.

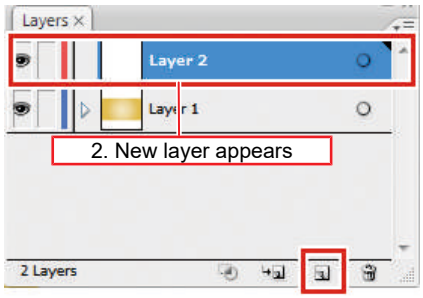
● Create data for printing metallic colors

When part of the print data is to be printed using SS21 silver ink, create the following three different plates:

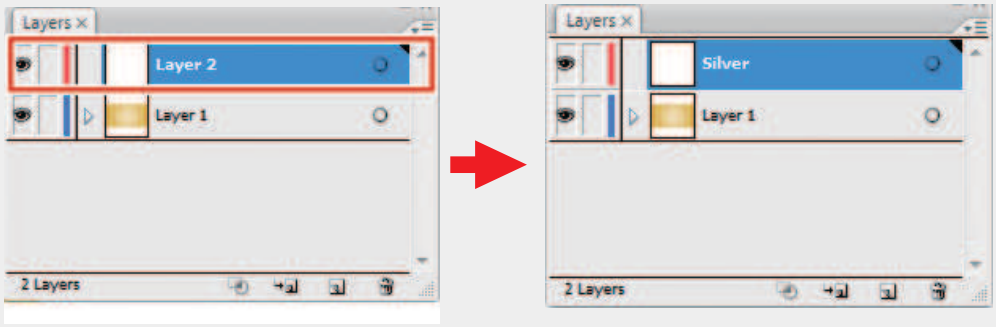


The RasterLinkTools die-cutting function allows the data for these three different plates to be created easily.

1 Create a layer for the silver plate on top of the print data layer.



- Double-click to rename layers.

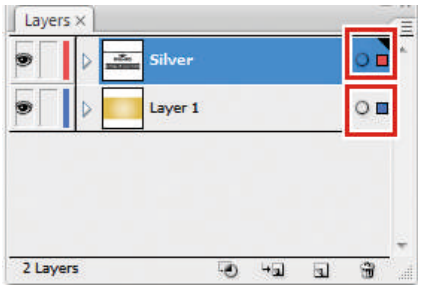


2 Create a path for the area to be printed with silver ink inside the layer for the silver plate.

Important!

- The area for printing with silver ink must be made into a path.
  If image data exists, this will be excluded from die-cutting.
- The path for the area for printing with silver ink must be set to the following parameters:
  - Paint: K100
  - Line: No paint

3 Select the print data layer and silver plate layer while pressing [Shift].

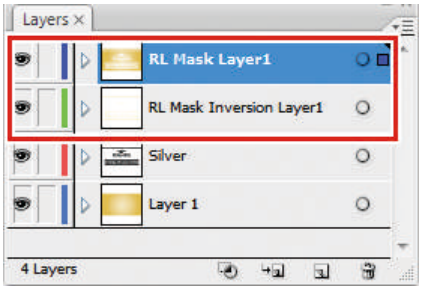


Important!

- The displayed layers will be die-cut. Layers that are not to be die-cut should be hidden.

4 Click [Window] - [Mimaki RasterLink] -[ ] icon.

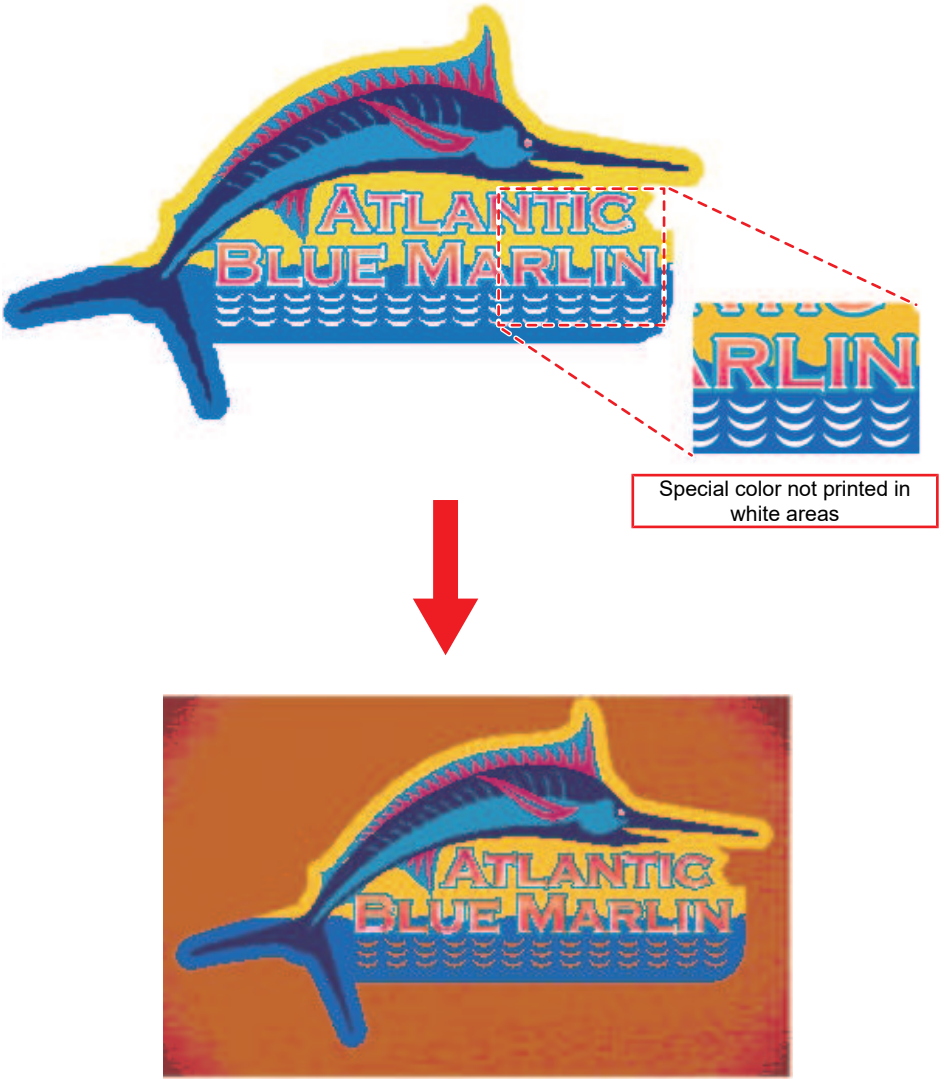
- [RL Mask Layer 1] (metallic color plate job data) and [RL Mask Inversion Layer 1] (color plate job data) are created.



- For more information, refer to the "Metallic Color Printing Guide" for the corresponding printer.

● A special color is printed over the entire image.

If the special color job was created with [Valid Pixel] selected in [Special plate], special color ink will not be printed in white areas (such as the letter outlines and waves in the example below) within the job. If these areas are printed, the media bottom will be visible in the white areas.



In cases like this, use RasterLinkTools to create special color image data to print special color ink over the entire job.

1 **Open the image data in Adobe Illustrator.**

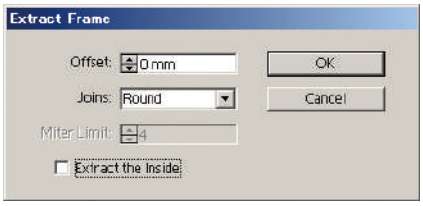
2 **Select all objects.**

3 Click [Window] - [Mimaki RasterLink] -[ ] icon.

- Or select [File] - [RasterLink] - [Extract Frame].
- The [Extract Frame] dialog appears.

4 Set the path as follows in the [Extract Frame] dialog:

[Offset] : 0mm
[Extract the Inside] : Off

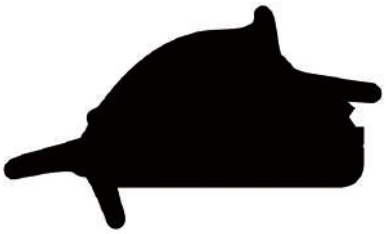


5 Click [OK].

- A path is created surrounding all of the objects.

6 Select the path created in Step 5, then alter the colors as follows:

Line : None
Paint : Black 100%



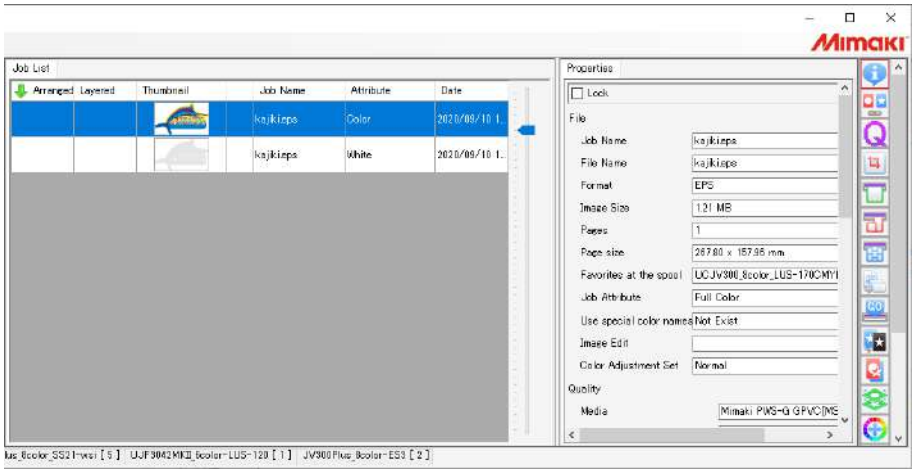
7 Click [Window] - [Mimaki RasterLink] -[ ] icon.

- Or select [File] - [RasterLink] - [Output to RasterLink].
- The [Save] dialog appears.

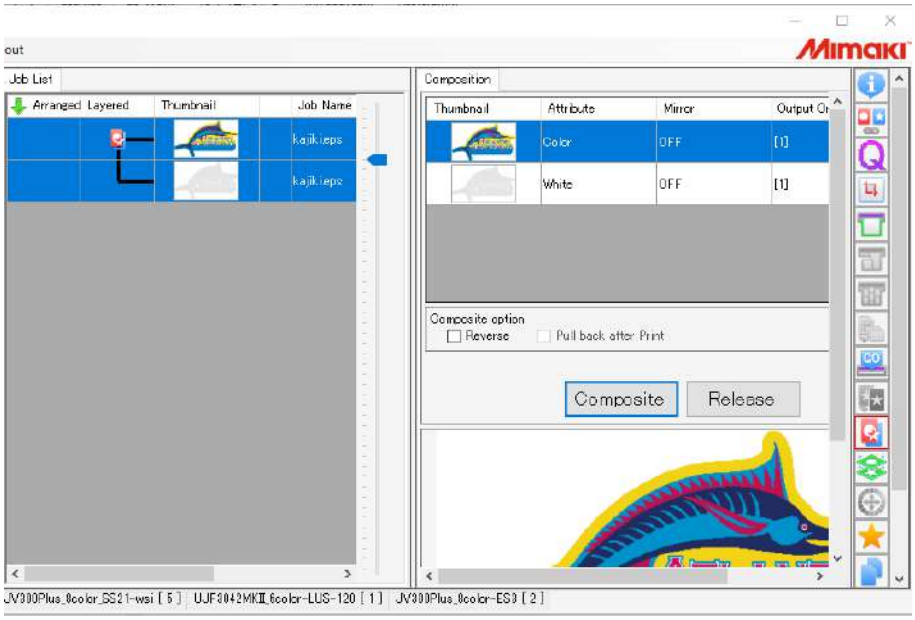
8 **Enter the save destination and file name in the [Save] dialog, then click [Save].**

- Saving a file in a hot folder automatically imports it to RasterLink7.

9 **Replace the color with a special color on the [Properties] tab of RasterLink7.** ☞ "Properties"(P. 28)



10 **Combine with the color plate job using the [Composite] tab.** ☞ "Composite"(P. 108)



11 **Start printing using the [Execute] tab.** ☞ "Execute"(P. 98)

- The special color will be printed even in white areas of the original image data.

5.3.5 Save Data to RasterLink

Save data in eps format.

1 Click [Window] - [Mimaki RasterLink] -[ ] icon.

- Or select [File] - [RasterLink] - [Output to RasterLink].
- The [Save] dialog appears.
- In the case of CorelDRAW:
  Select [RasterLink] - [Output to RasterLink] from the [Tools] menu.

2 Enter the save destination and file name in the [Save] dialog, then click [Save].

- Saving a file in a hot folder automatically imports it to RasterLink7.

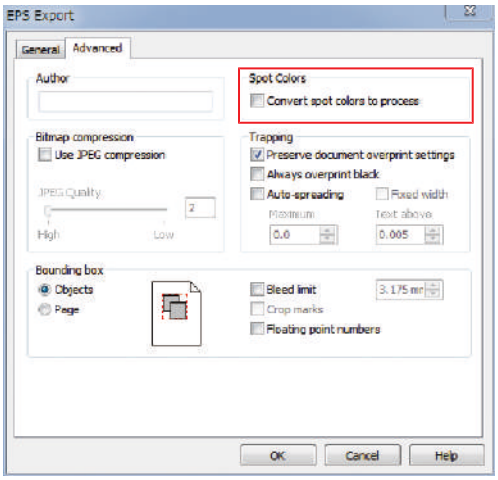
Important!

- Adobe Illustrator for Macintosh allows only single-byte alphanumeric characters for file names.
- Locations where cut paths are not to be output should be hidden.

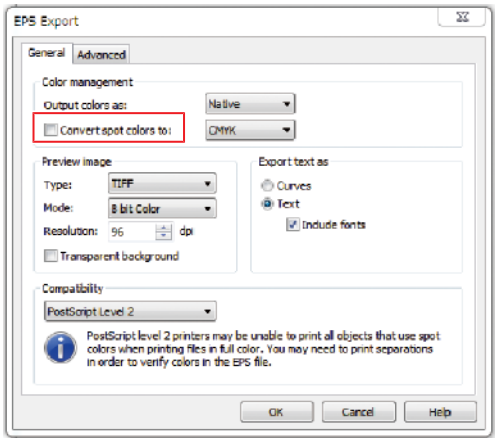
3 Click [OK] in the [EPS Options] dialog.

- An eps file is saved.
- In the case of CorelDRAW:

  CorelDRAW X3, X4
  Remove the check mark from Spot Colors [Convert spot colors to process] in the [Advanced] tab.



CorelDRAW X5, X6
Remove the check mark from Spot Colors [Convert spot colors to ...] in the [General] tab.



Important! [Output to RasterLink] outputs all data to ensure that the print position is not misaligned when multiple plates are combined and printed using RasterLink7.
The layers and object areas hidden on Adobe Illustrator will form margins.
If you do not wish to create margins, send the data to RasterLink7 using one of the following methods.

- Delete the layers and objects hidden on Adobe Illustrator before executing [Output to RasterLink].
- Save in eps format using the Adobe Illustrator save function without using [Output to RasterLink], then manually place data in a hot folder.

5.3.6 Update the RasterLinkTools Settings

A special color job is created automatically when imported using RasterLink7.

This can be used from RasterLinkTool ver. 1.3 onward.

This function can be used with the following software:

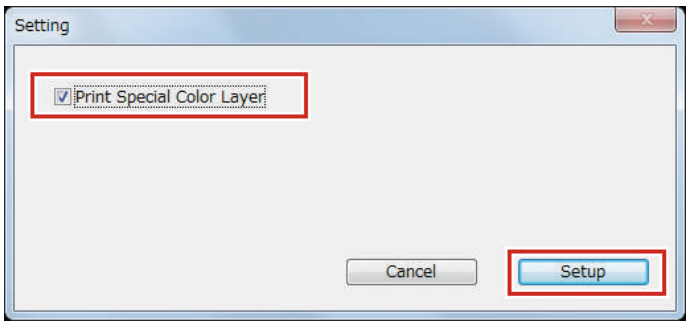
- Adobe Illustrator CC onward
- CorelDRAW X5 to X7

1 Click [Window] - [Mimaki RasterLink] -[ ] icon.

- Or select [File] - [RasterLink] - [Setup].

2 Select the [Print Special Color Layer] checkbox, then click [Setup].

- Using [Output to RasterLink] to output image data with colors replaced by colors included in the following libraries creates a special color job automatically when imported into RasterLink7.



- Mimaki RasterLink Library
- Mimaki SS21 Metallic Color Library
- Mimaki SS21 Metallic Orange Color Library

Important! If the [Print Special Color Layer] checkbox is selected, the favorites created in the following menu will not be applied.

- [Properties]
- [Special plate]

5.3.7 Check for RasterLinkTools Updates

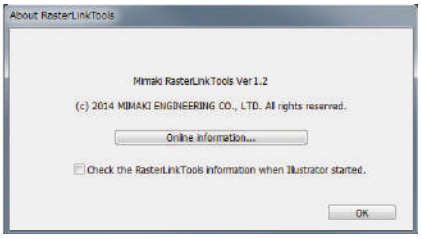
Connect to the Internet, and check for RasterLinkTools update information.

1 Click [Window] - [Mimaki RasterLink] -[ ] icon.

- Or select [File] - [RasterLink] - [About RasterLinkTools].
- The [About RasterLinkTools] dialog appears.

2 Click [Online information...].

- RasterLinkTools update information is displayed.
- Selecting the [Check the RasterLinkTools information when Illustrator started.] checkbox automatically fetches information when Adobe Illustrator starts up, then displays the RasterLinkTools update information.



Chapter 6 Troubleshooting

This chapter

Explains how to resolve problems that may arise and describes operation procedures that may be unclear.

6.1 Dealing with Error Messages

Error message	Display conditions (causes)	Corrective action
Failed to load the execution module: [Execution module name]	A file required for executing RasterLink7 is corrupted.	Reinstall RasterLink7.
Failed to get the profile information.	The printer attribute information and installed profile information could not be acquired from the database file (Profile\Profile.mdb) when launching.	The profile database file may be corrupted. Reinstall RasterLink7.
There is no RGB input profile. Please install at least one profile.	An attempt was made to launch RasterLink7 with all RGB input profiles uninstalled in ProfileManager.	Install an RGB input profile using ProfileManager.
There is no CMYK input profile. Please install at least one profile.	An attempt was made to launch RasterLink7 with all CMYK input profiles uninstalled in ProfileManager.	Install an CMYK input profile using ProfileManager.
There is no full color device profile. Please install at least one profile. [Printer name: Inkset name]	The printer could not be registered when adding in [Printer Management], as none of the specified [Inkset] device profiles have been installed.	Install the device profile for the specified printer and inkset using ProfileManager.
	An attempt was made to launch RasterLink7 with all of the device profiles for [Inkset] at the time a printer was registered deleted using ProfileManager after registering a printer.	
The inkset information [Inkset discrimination] is not defined in the database.	Inkset information could not be identified when adding a printer in [Printer Management] due to incorrect specifications for [Model] or [Color].	When adding a printer in [Printer Management], select [Model] and [Color] settings from the lists that match the actual printer connected.
The Device profile specified in the Favorite setting [Favorite name] was not found. The settings were initialized. Please check the settings. The settings were initialized. Please check the settings.	An attempt was made to launch RasterLink7 with the device profiles associated with the favorite setting deleted using ProfileManager.	RasterLink7 automatically updated Device Profile Specification in [Favorite]. Check the favorite settings.
The device profile specified in the Job [Job name] was not found. The settings were initialized. Please check [Quality] settings. The settings were initialized. Please check [Quality] settings.	An attempt was made to launch RasterLink7 with the device profiles associated with the job deleted using ProfileManager.	RasterLink7 automatically updated Device Profile Specification for the job. Check the print settings.

Error message	Display conditions (causes)	Corrective action
Any available printer has not been specified.	An attempt was made to register a printer not connected in [Printer Management].	Check the connection to the printer.
The printer name has been already used.	An already registered [Printer Name] was specified when registering multiple printers in [Printer Management].	Enter a [Printer Name] not registered in [Printer Management] and a [Printer Name] not registered in [Control Panel] - [Hardware and Sound] - [Devices and Printers].
The selected available printer has been related to another printer (printer name).	[Available Printers] already specified as a registered printer was specified when registering multiple printers in [Printer Management].	Multiple printers cannot be registered for a single printer in [Printer Management].
The ink configuration had changed. Please register a new printer. Please register a new printer.	[Printer Management] - [Properties] - [OK] was clicked after changing the printer inkset or installed ink.	The [Inkset] information cannot be modified after a printer has been registered. Delete the original registered printer in [Printer Management], then add a new printer.
[MACHINE NAME] is duplicated for some printers. Please specify a unique [MACHINE NAME] for each printer by the operation panel.	A printer could not be registered when registering multiple printers in [Printer Management], as [MACHINE NAME] matched a printer that was already registered.	If two or more printers are connected via USB 2.0, specify a unique [MACHINE NAME] for each printer on the operation panel.
Could not stop Print Spooler. Could not start Print Spooler.	The Windows Print Spooler service could not be stopped or started when creating or deleting a hot folder.	The Windows Print Spooler service cannot currently be stopped or started. Note that antivirus software may prevent starting or stopping of the service program. Either temporarily uninstall the antivirus software or temporarily disable the virus detection function.
Cannot create the printer driver. [Printer driver name] Cannot create the printer. [Printer name] Cannot remove the printer driver. [Printer driver name] Cannot remove the printer. [Printer name]	The printer driver corresponding to a hot folder could not be created or deleted when attempting to create or delete the hot folder.	This may be due to a non-Mimaki printer. Delete the non-Mimaki printer in [Control Panel] - [Hardware and Sound] - [Devices and Printers].
	The printer driver could not be deleted when uninstalling RasterLink7.	If this error occurs when uninstalling RasterLink7, restart the PC, then delete the printer created by RasterLink7 in [Control Panel] - [Hardware and Sound] - [Devices and Printers].
The file name contains prohibited characters. Please change the file name.	The file could not be imported due to a problem with the file name.	Remove any prohibited characters such as punctuation and brackets.

Error message	Display conditions (causes)	Corrective action
File name is too long.	A file could not be accessed when attempting to import the file using the [File] - [Open] menu or by dragging and dropping because the full path for the file was too long.	File paths supported by Windows must not exceed 255 bytes. Path names may become long particularly for network drives. Copy the file to a local hard disk or USB memory drive before importing to RasterLink7.
The maximum number [200] of registered jobs has been exceeded. No more jobs can be registered. Please delete unnecessary jobs.	The maximum number of registered jobs (200 jobs) was reached when attempting to import a file using [File] - [Open] or by dragging and dropping.	Please delete unnecessary jobs.
Cannot recognize the file format.	An attempt was made to import a file with an unsupported format.	Output the printer driver from the application [File] - [Print] menu.
Cannot get the image size.	The image size (media size) of the file imported could not be determined.	Output the printer driver from the application [File] - [Print] menu.
Cannot move the file from [source]to [destination].	This may occur when copying files from a client PC to a hot folder.	This occurs when the copied files are not released by the client PC. Restart the client PC.
PostScript Error	The RIP core detected an error when importing a file or when ripping.	Output the printer driver from the application [File] - [Print] menu.
		If [VMerror] or [limitcheck] occur, this indicates that the input image data is too complex. Simplify the data such as by rasterizing vector objects. If the image includes gradation objects, try disabling [Compatible gradation], and if it includes gradation meshes, try enabling [Gradation mesh print].
		If [invalidaccess] occurs when attempting to import a PDF file, this indicates that the PDF file is password-protected. Remove the PDF file password protection before resaving the PDF file.
The operation cannot continue due to extremely insufficient memory.	There is very little available memory.	Restart RasterLink7.
		Select [Environments] - [Option] - [Display], and reduce [Preview Resolution].
Layout preview cannot be displayed because the media width is zero. Confirm the media width at [Printer Status]-[Media]. Confirm the media width at [Printer Status]-[Media].	The display was switched to the layout preview screen when no media was installed in the printer or when [Media Size] was set to [Manual Input: 0 mm].	Install the media in the printer, then reacquire the printer status.
		When entering [Fit to Media Width], be sure to specify a valid size.

Error message	Display conditions (causes)	Corrective action
The job is arranged out of the print area.	The job has been arranged completely outside the print area.	Arrange the job inside the print area.
The job is arranged out of range of the print area.	The job has been arranged partially outside the print area. Parts outside the area will not print.	If this presents a problem, make sure the job fits completely within the print area.
Any of print tiles is not specified.	No tiles have been selected for printing on the [Tiling] screen.	Set at least one tile using [Divide Edit] - [Print Order].
The size of top row tiles is too small. The size of left column tiles is too small. The size of some tiles is too small.	Tiles on the [Tiling] screen are smaller than the minimum size.	Check the tiling settings to ensure that the tiling size is larger than 1 inch (25.4 mm).
The size of some tiles is smaller than the overlap.	Tiles on the [Tiling] screen are smaller than the overlap size.	Set so that the tiling size is larger than the overlap size.
Different [Resolution] is specified in selected jobs.	An attempt was made to arrange multiple jobs with different resolutions or dot types (ND/VD) on the [Arrange] screen.	Make sure all of the jobs to be arranged have the same resolution and dot type on the [Print Condition] screen.
Different [Multilayer Print Type]s are specified in selected jobs.	An attempt was made to arrange multiple jobs with different multilayer print types on the [Arrange] screen.	Make sure all of the jobs to be arranged have the same multilayer print type on the [Layer] screen.
This Print Condition is different from the selected job. [first job name] Print Condition applies to all selected jobs in case of arrangement. OK?	An attempt was made to arrange multiple arrangeable jobs on the [Arrange] screen, but the print settings will be changed when arranged.	Select [No] if you do not wish to change the print settings.
Only a part of Composited / Arranged Job is not Deletable. If you wish to delete certain jobs, cancel the arrangement/ composition before deleting them.	An attempt was made on the [Delete] screen to delete some of the arranged jobs or some of the composite jobs.	Cancel the arrangement or composition before deleting the jobs.
Unexpected abort from RIP CORE. [PREVIEW]	An error occurred when reading the file.	Please read the file again.
Unexpected abort from RIP CORE. Restart RasterLink7. [RIP]	An error occurred during RIP processing..	Restart RasterLink7.
USB2 : Cannot open port (W). <Error details> USB2: Cannot open port (U). <Error details>	Cannot connect to the printer.	Check that the printer is turned on and that the printer is connected to the PC with a USB 2.0 cable.
USB2: [DATA CLEAR] function was performed by the printer.	[DATACLEAR] was clicked on the operation panel while printing was in progress.	Printing was aborted by the data clear operation. Printing cannot be resumed. If you wish to print the job again, print from the start.

Error message	Display conditions (causes)	Corrective action
	The media end was detected while printing was in progress.	Use the following methods. (1) Use a USB cable no longer than 3 m. (2) Use a USB hub. (3) Increase the number of USB interfaces.
	Data may be cleared unexpectedly if there is a communication problem with the USB interface while print data is being sent to the printer.	
DRV: An error has occurred during output (W). <Error details> DRV An error has occurred during output (O). <Error details>	A USB communication fault occurred while the print command was being sent to the printer.	This problem is more likely to occur when using non-recommended configurations such as those below. • When not using a PC containing a genuine Intel chipset • When using a USB cable extended using a repeater cable • When using a poor-quality USB cable (It is recommended that you use a Mimaki-recommended cable, available separately.)
		If you are already using the recommended setup, use the following methods. (1) Use a USB cable no longer than 3 m. (2) Use a USB hub. (3) Increase the number of USB interfaces.
Cannot connect to the printer with USB2.0 Hi-Speed mode. Check that the PC USB port, USB cable, and USB hub all support USB2.0.	Unable to connect in USB 2.0 Hi-Speed mode with the USB connection to the printer.	Check the USB 2.0 connection configuration.
Cannot get information for the calculation of the consumption of ink from the printer status.	An attempt was made to RIP while the printer was not connected. With certain Mimaki printer models, the printer must be connected to allow calculation of ink consumption.	Check the connection to the printer.
		If ink consumption does not need to be calculated, disable [Calculate Ink Consumption] in [Environments] - [Option] - [Job Control].
Cannot execute the Job because the media width is zero.	An attempt was made to print when no media was installed in the printer or when [Media Size] was set to [Manual Input: 0 mm].	Install the media in the printer, then reacquire the printer status.
		When entering [Fit to Media Width], be sure to set a valid size.
Cannot get information for multi layer print from the printer status. Please check the connection to	An attempt was made to RIP a 3-layer print job while the printer was not connected.	Check the connection to the printer.

Error message	Display conditions (causes)	Corrective action
the target printer. Please check the connection to the target printer.		
Unable to read the file. Either the file has been damaged or the file format is not valid. Either the file has been damaged or the file format is not valid.	A fault was detected in the input file during ripping.	Create the input file once more. This error also occurs when an alpha channel TIFF has been imported. Remove the alpha channel.
No restorable printer is registered (Model name).	A job could not be restored when restoring the backup job file on the [Backup] screen because the printer for the backed-up job is not registered.	Add a printer with the same conditions as the printer for the backed-up job in [Printer Management].
Cannot restore the file because it was backed up by newer version of RasterLink7. Please update RasterLink7 to [Version No.] or later.	An attempt was made to restore a job backed up with a version of RasterLink7 newer than the version of RasterLink7 installed when restoring a backup job file on the [Backup] screen.	Backup job files created using a newer version of RasterLink7 cannot be restored in an older version of RasterLink7. First update RasterLink7 to the specified version or later.
Cannot restore the job because the necessary profile has not been installed. Please exit RasterLink7 and install the following profile by ProfileManager and then restore the job again.	A job could not be restored when restoring the backup job file on the [Backup] screen because the profile used by the backup job is not installed.	Exit RasterLink7, then install the profile specified in ProfileManager in accordance with the message.
The free space of the working drive (Drive Name) is less than the setting size (## GB). Please delete unnecessary jobs or Ripped Data. Please delete unnecessary jobs or Ripped Data.	The free space on the HDD has fallen below the setting ([Environments] - [Option] - [Disk] - [Disk Space to Keep]).	Delete any unwanted jobs to free up space on the hard disk.
Cannot operate the job which is not ready.	Execution was set for a job being executed before execution was completed.	Wait until the job has been fully executed.
No operation applies to locked job.	An attempt was made to change the attributes of or to arrange, create a plate, compose, or delete a locked job.	Unlock in [Properties] before operating.
The changes were not saved because one or more jobs has been locked.	An attempt was made to select a locked job and open the Edit screen. Changes made on the Edit screen will not be saved when switching to a different screen.	If you wish to edit the job settings, unlock in [Properties].
The print condition in effect is not the recommended print condition (recommended drawing mode) of	This appears when the print settings (number of paths, overprinting, print direction, fast	• Print using the recommended print settings.

Error message	Display conditions (causes)	Corrective action
the profile. It may compromise quality if you continue with printing.	printing) do not correspond to the recommended print settings for the profile and the UV irradiation value inside the profile cannot be obtained.	• Set the printer UV mode to a setting other than [Host].
		Selecting [Yes] aborts printing.
		Selecting [No] resumes printing and uses the printer UV irradiation setting.
The specification method of the printing page range is not suitable.	The page specification specified invalid characters, or the upper limit of input pages exceeded the total number of pages.	Set the page configuration while taking care not to use "-" twice and characters other than "-" or ",", or to specify an upper limit for the input pages exceeding the total number of pages.
Cannot composite jobs with different color set of device profile.	An attempt was made to combine jobs with different color sets. Jobs with different color sets cannot be combined.	Change to device profiles with the same color set.
Cannot Speed-priority Composite jobs with different device profile. Combine using [Quality].	Cannot Speed-priority Composite jobs with different device profile. Jobs were combined using the same conditions as for [Quality].	When combining using the same conditions as for [Speed], apply the same profile to all of the jobs to be combined, then combine again using [Speed].
Cannot Speed-priority Composite jobs with different resolutions. Combine using [Quality].	Cannot Speed-priority Composite jobs with different resolutions. Jobs were combined using the same conditions as for [Quality].	When combining using the same conditions as for [Speed], set the same resolution for all of the jobs to be combined, then combine again using [Speed].
Server is busy, so cannot connect to the database. Please wait for a while and try again. Please wait for a while and try again.	An attempt was made to activate a license while the server was undergoing maintenance.	Wait a while and try again later.
Re-activate is needed.	The license may not have been activated.	Deactivate the license as described in the operation manual, then repeat license activation.
The PC configuration has been changed after your activation.	If the license was activated via a LAN cable connection, but RasterLink7 was started using a wireless LAN connection	1. Restore to the same configuration as at the time of license activation before starting. Restore the network connection method (LAN cable or wireless LAN connection) motherboard to the original configuration. 2. Deactivate the license, repeat license activation, then start RasterLink7. If not connected to the Internet, deactivate the proxy license.
	If the license was activated via a wireless LAN connection, but RasterLink7 was started using a LAN cable connection	
	Because the PC configuration changed (such as motherboard replacement)	

Error message	Display conditions (causes)	Corrective action
Error occurred during activation.	Errors may occur with the following network connections: • PPP network adapter (such as USB data communication terminals) • USB connection network adapter (such as USB wireless LAN adapters)	Connect using a LAN cable for license activation. Do not use PPP connection or USB connection network adapters.
This serial key is already used on another PC.	This error occurs if a serial key already used for activation is reused without first deactivating the license. (For example, if you attempt to install RasterLink7 and activate the license while another activated PC already exists)	Deactivate the license on the activated PC, then activate the license on the new PC.
An overflow error occurred.	This occurs if the image size for outline extraction in RasterLinkTools is too large.	If outline extraction is not possible, reduce the image size.

6.2 PC-Related Installation Issues

6.2.1 Unable to connect to the Internet when using tools

If you are using security software that includes a firewall feature, connections to a network (Internet) may be blocked when using tools for license activation, program updating, and profile updating. Most security software will prompt the user for permission to connect when the software connects to a network for the first time.

Be sure to allow the connection if prompted to confirm for the first time for license activation, program updating, and profile updating.

If you accidentally refuse the connection, refer to the manual for the security software in use and allow network connections for the following files:

- RasterLink7 installation drive\ RsLink7thWeb\Bin\AppWebcLicense.exe
- RasterLink7 installation drive\ RsLink7thWeb\Bin\AppWebcNotify.exe
- RasterLink7 installation drive\ RsLink7thWeb\Bin\AppWebcProfile.exe
- RasterLink7 installation drive\ RsLink7thWeb\Bin\AppWebcProgram.exe

6.2.2 The screen display is faulty in RasterLink7.

The following problems may occur with the screen display in RasterLink7:

- Parts of the previous tab display remain when selecting other tabs.
- The preview is corrupted.
- The screen display may become corrupted or the PC may freeze if RasterLink7 runs for extended periods.

Check the following details if problems like this occur:

- Update the graphic board driver to the latest version.
  For more information on how to update the graphic board driver, refer to the manual for your PC or graphic board.

6.2.3 RasterLink7 fails to start.

RasterLink7 may sometimes fail to start even when the RasterLink7 icon on the desktop is double-clicked.

Check the following details if problems like this occur:

- Launch RasterLink7 from the Windows Start menu.

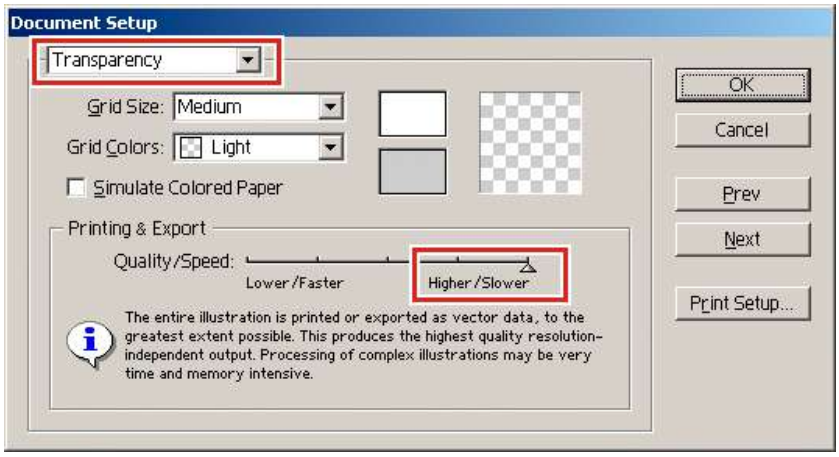
6.3 Precautions Regarding Design Software

6.3.1 Adobe Illustrator Related Issues

Transparency effects and drop shadows

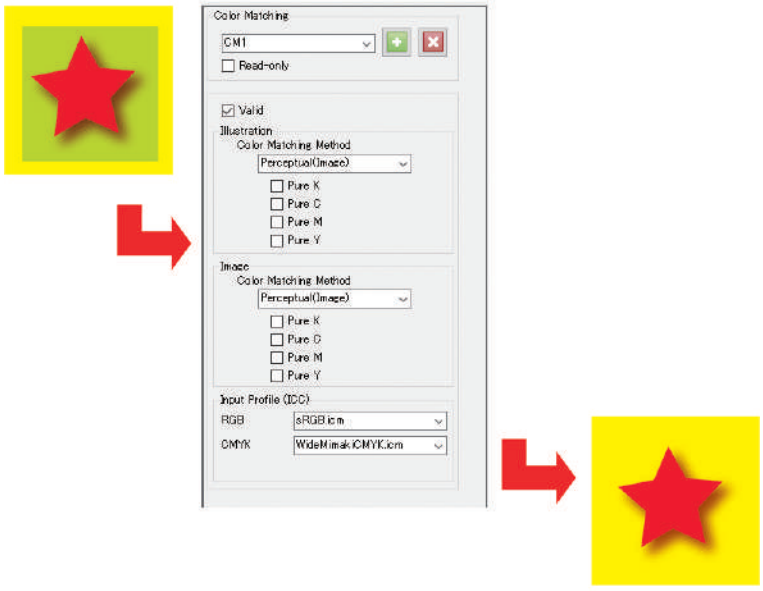
Data with transparency effects applied may result in noticeable jagged edges when enlarged and printed with RasterLink7.

If problems like this occur, set [Document Setup] in Adobe Illustrator as follows.



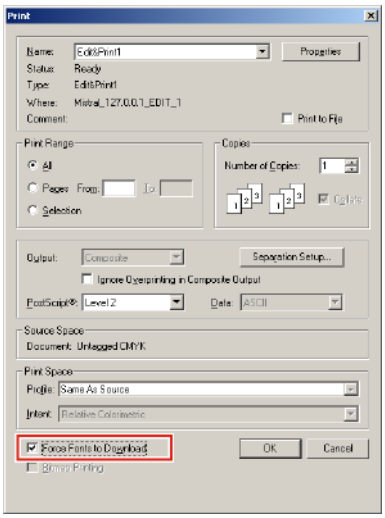
If the Drop Shadow command is used, the color around the object with a drop shadow added will differ from other colors.

Set the same [Color Matching Method] for [Illustration] and [Image] in RasterLink7.



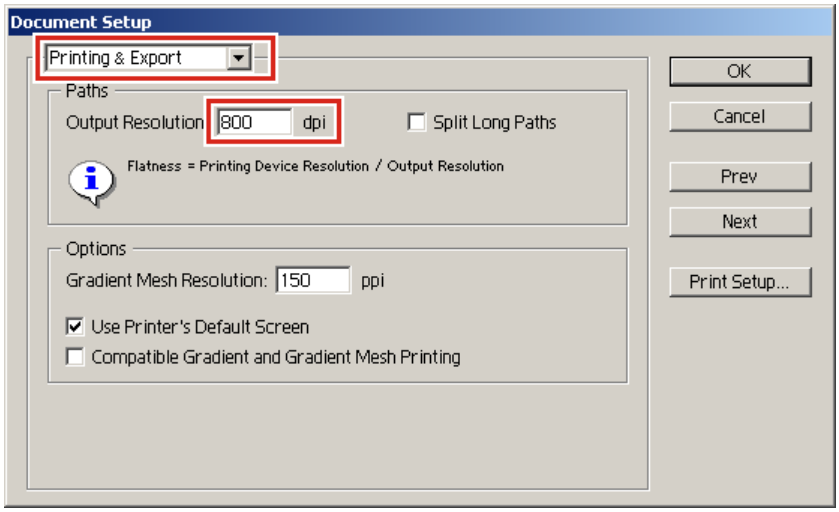
Text does not print correctly

If text cannot be printed, is printed in italics, or if parts of objects around text fail to print at all, create an outline for the fonts being used.
If printing using a printer driver, select the [Download Font] checkbox.



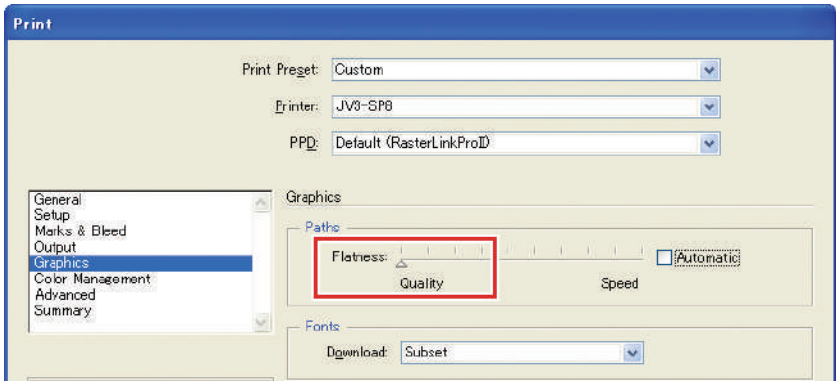
Circles and text appear as polygons

Circles and text will appear as polygons if the path output resolution is low in Adobe Illustrator or if the scale set in RasterLink7 is too high. (for example, when the scale for RasterLink7 is set to 1,000%)
The default output resolution for paths in Adobe Illustrator is 800 dpi. Either increase the path output resolution in Adobe Illustrator or reduce the scale in RasterLink7.



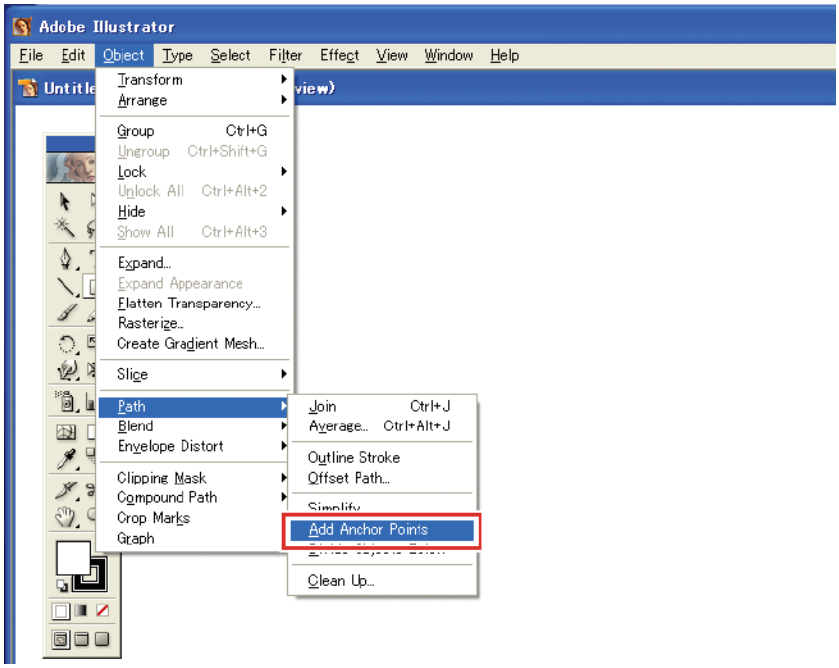
When increasing the path output resolution in Adobe Illustrator, calculate resolution using the following equation. No benefits will be gained even when a value greater than this is set.

There is no path output resolution setting when saving to an eps file. Output from Adobe Illustrator using the printer driver with [Smoothness] in [Graphics] set to [High quality].



Circles and text may be printed as polygons if the scale value has not been increased in RasterLink7 or if the path output resolution has been increased in Adobe Illustrator.

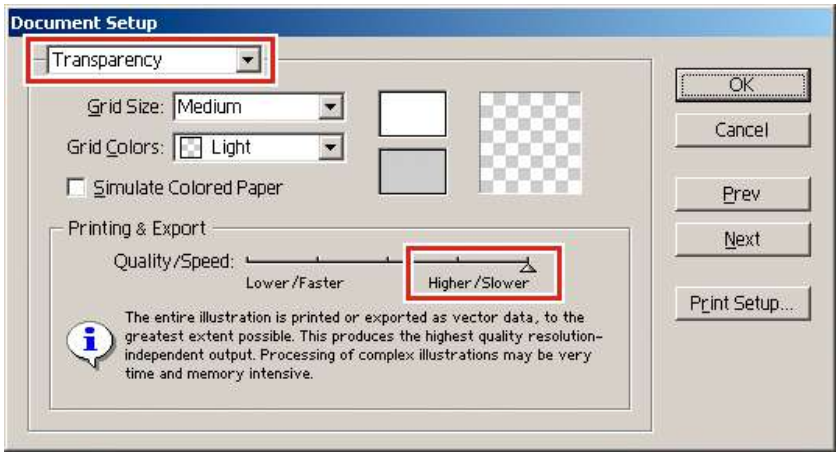
If this occurs, select the corresponding objects in Adobe Illustrator, then use [Add Anchor Point] one to three times to shorten individual curve segments.



Text with transparency effects applied appears jagged

Text with transparency effects applied may appear jagged when enlarged in RasterLink7.

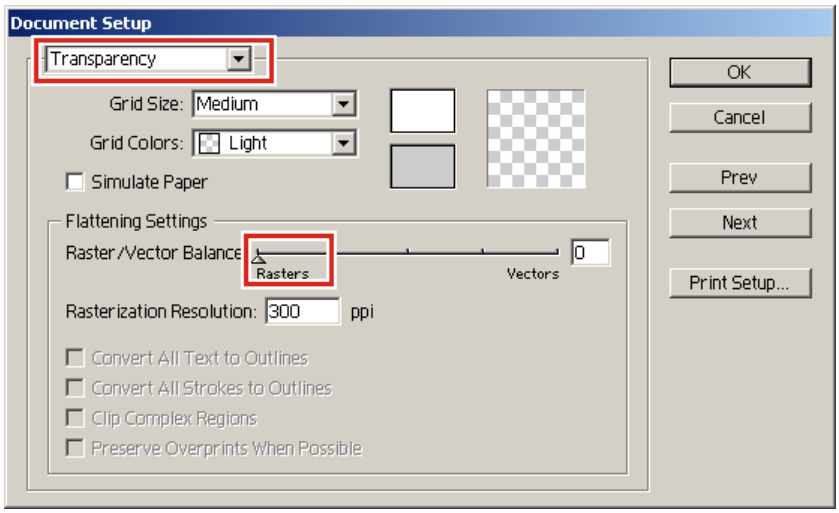
If problems like this occur, set [Document Setup] in Adobe Illustrator as follows.



Some parts are not printed or unwanted lines are printed

Some rectangular parts may fail to print, or unwanted lines may print with complex objects or photographs with transparency effects applied.

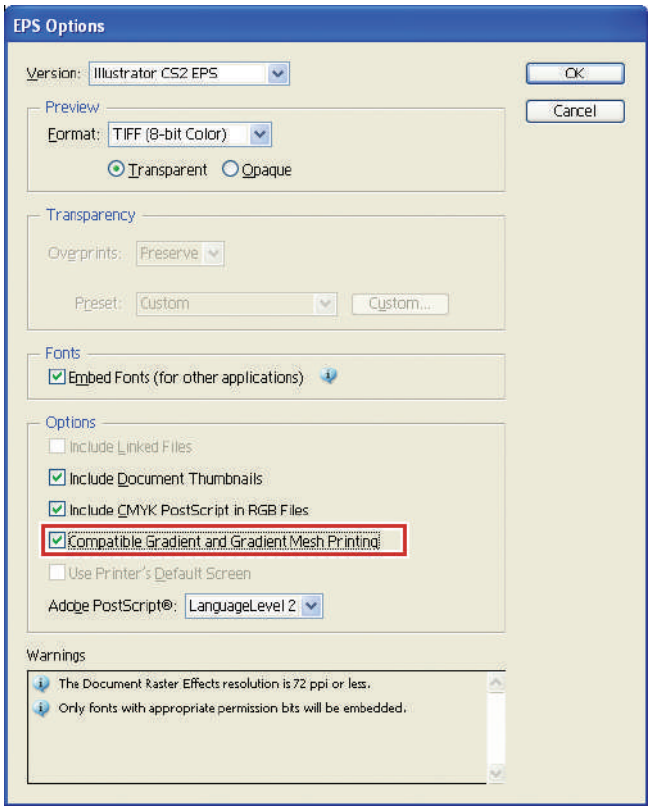
If problems like this occur, set [Document Setup] in Adobe Illustrator as follows.



Problems occur with gradation printing

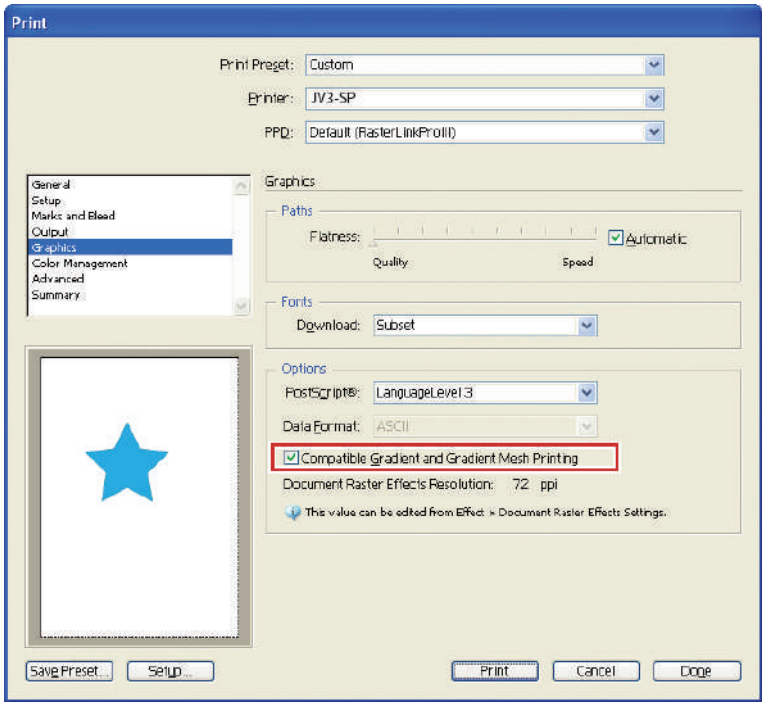
● Saving in eps format

Set the [EPS Options] as follows when saving in eps format.



● Printing

Set the [Print] options as follows when outputting with the printer driver.

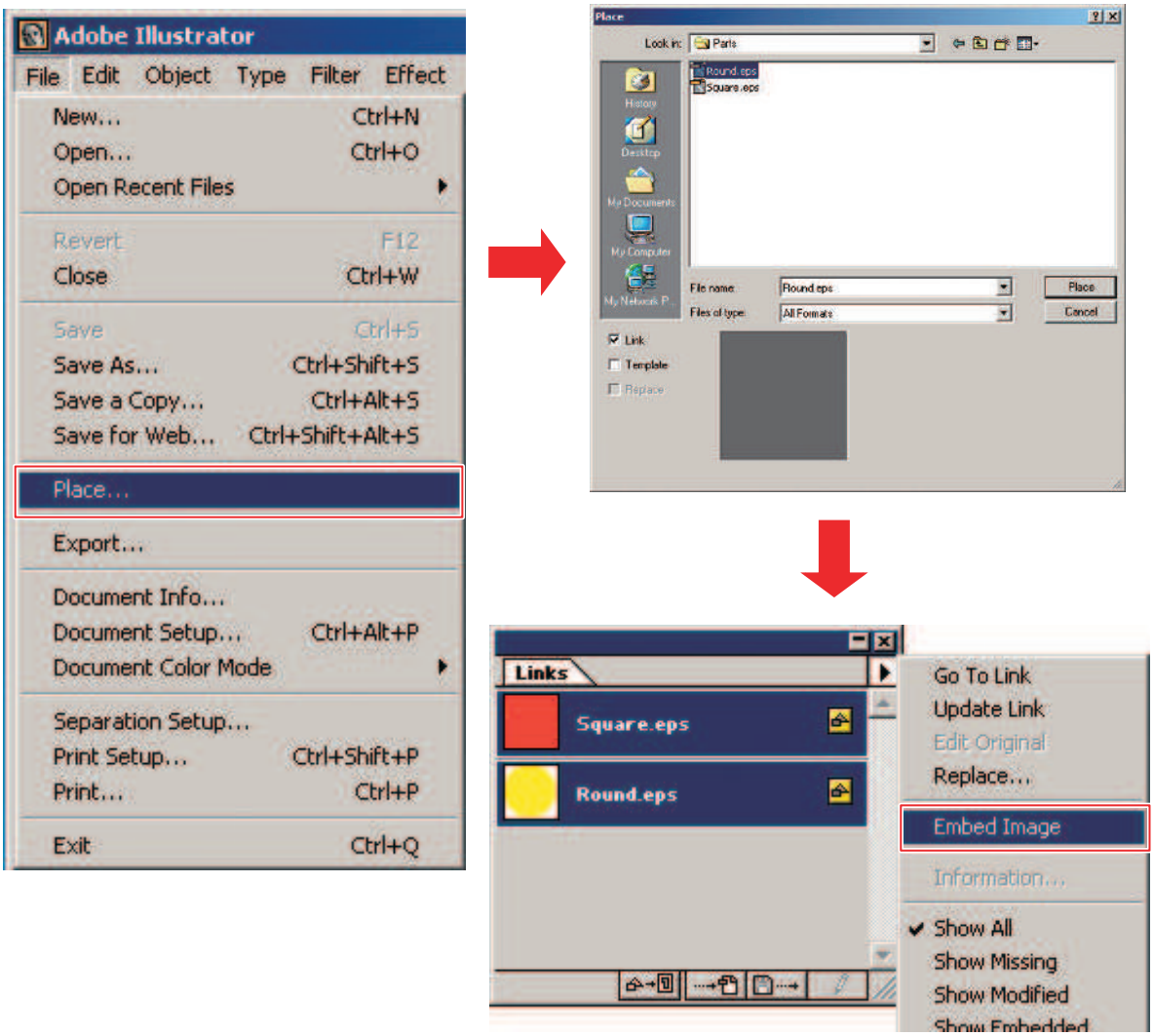


Important!

- In the case of data that includes gradation replacement, do not select the [Compatible gradation and Gradation mesh print] checkbox. This will prevent color replacement.

Positioned images are missing and ripping does not start

If data created in Adobe Illustrator contains positioned link images, embed these images using Adobe Illustrator.



Parts surrounding images are missing

When rectangular objects are positioned with thin lines around images, the lines may become thinner or fail to print at all.
This occurs because Adobe Illustrator clips by rounding the overall image size to the nearest integer number of points when saving in eps format.
When using Adobe Illustrator, either place dummy objects around the image when saving in eps format or set a slightly larger PostScript custom page size with the printer driver output.

The image size in the design software differs from the image size in RasterLink7

The size of images created in design software will not perfectly match the image size displayed in RasterLink7. This can be due to a number of reasons.

- **Restrictions on how image size is handled in PostScript language**

  Size is normally specified in units of mm or inches in design software, but in PostScript, values are handled in Point (1/72 inch) units.
  The sizes of image objects are handled as the actual number of Points, but the overall size when saving as an eps file or PostScript custom page size for printer driver output is ultimately converted to an integer-based number of Points. This can result in conversion errors of up to 1 Point (0.353 mm).

- **Effects of line width**

  The object size displayed in the [Information] window in Adobe Illustrator does not include line width. The actual object size will be the size including line width.

- **Effects of size calculation method in specific design software**

  Effects occur due to specific size calculation methods in the design software, in the same way as described in ☞ "Parts surrounding images are missing"(P. 272).

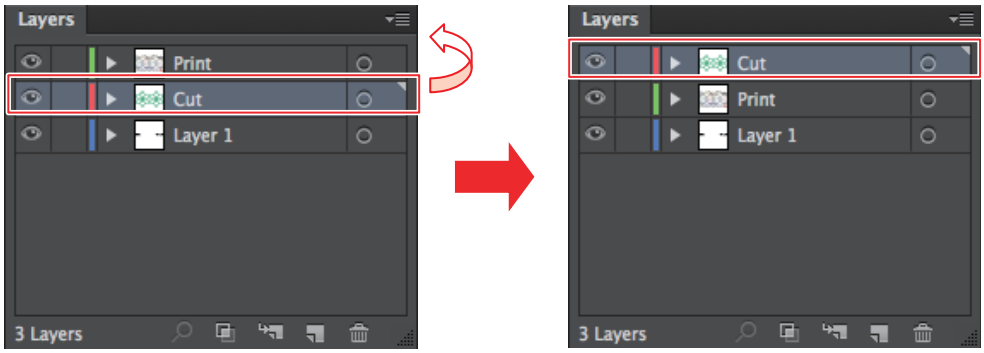
Errors of approximately 1 Point will occur for the above reasons even when outputting at actual size, and so enlarging or reducing using RasterLink7 will increase these errors. (An error of 1 Point will become an error of 3.5 mm if enlarged by 1000 %.)
If accuracy of the output size is an important factor, the following points should be borne in mind to minimize any errors:

- Try to print at actual size where possible.
- Set in % when enlarging or reducing. (Do not set values in mm or inches.)

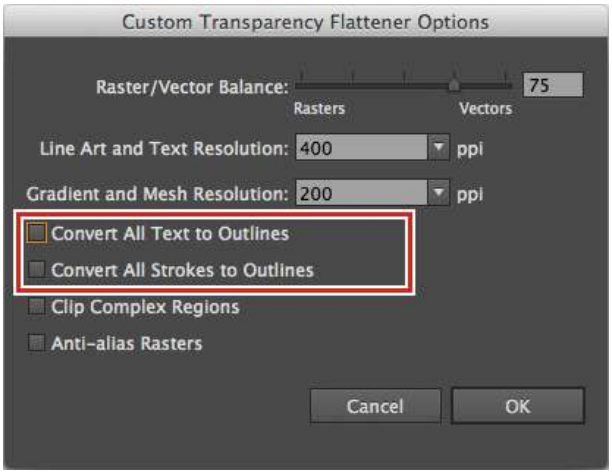
The same location is cut twice or cut paths are not recognized.

When data with transparency effects applied is printed and cut using RasterLink7, cut data may be subject to cutting twice or cut paths may not be recognized.
If this occurs, set the data as follows in Adobe Illustrator:

1 **Split print data and cut data onto separate layers and move the cut data layer to the top.**



2 **Unselect the [Convert all text to outlines] and [Convert all lines to outlines] checkboxes.**



- If the above procedure does not resolve the issue, use the Adobe Illustrator file save function to save the data in PDF1.4 or later format.

6.4 Macintosh Related Issues

6.4.1 Precautions when using hot folders

Errors during file copying

Files for which copying was aborted will normally be ignored or produce a read error, but RasterLink7 may sometimes malfunction if incomplete files are imported. Avoid aborting file copying where possible.

6.4.2 Ways to improve import speed when printing from design software

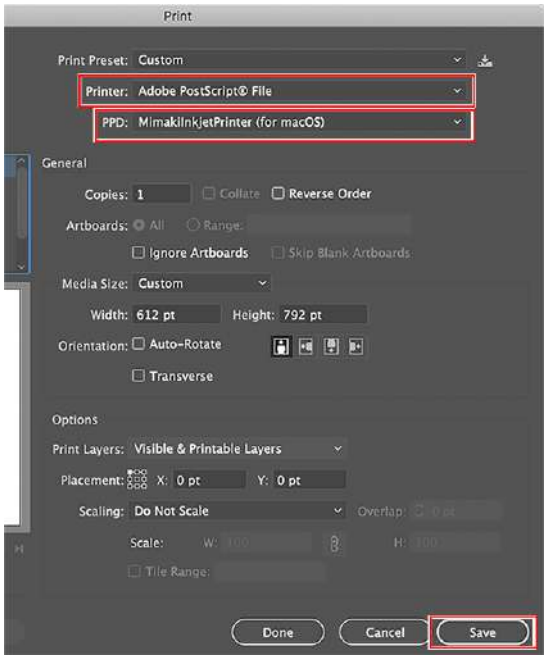
With some design software, the output destination for printing can be changed to a hot folder, which improves the import speed. Try the following methods:

Data can be imported from the design software to a hot folder using the following procedure:
It may not be possible to import some files. If this problem occurs, set the printer registered in RasterLink7 in [Printer] on the [Print] screen.

1 **Open the [File] - [Print] menu in the design software.**

2 **Set a printer for RasterLink7 in [Printer].**

- Select [Adobe PostScript® file] in [Printer].
- Select [MimakiInkjetPrinter (for macOS)] in [PPD].



3 **Click [Save].**

4 **Set the output destination to the RasterLink7 hot folder.**

5 **Click [Save].**

6.5 Miscellaneous

6.5.1 Ways to improve ripping speed for images containing gradation objects

Ripping will take some time for images that contain complex gradation mesh objects or a large number of gradation objects. In such cases, the Adobe Illustrator settings can be altered to improve the ripping speed. Normally, the [Compatible gradation and Gradation mesh print] checkbox should be unselected.
Try the following methods if this does not improve ripping speed:

Images containing a large number of gradation meshes or large gradation objects

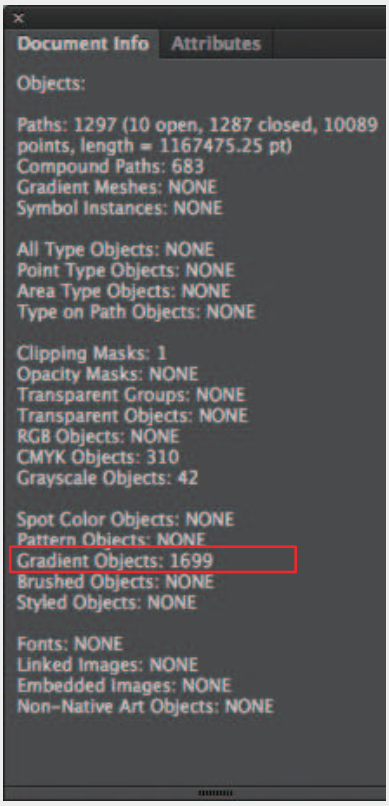
Select the [Compatible gradation and Gradation mesh print] check box in the Adobe Illustrator settings.

Images containing a large number of gradations for filling and lines or large gradation objects

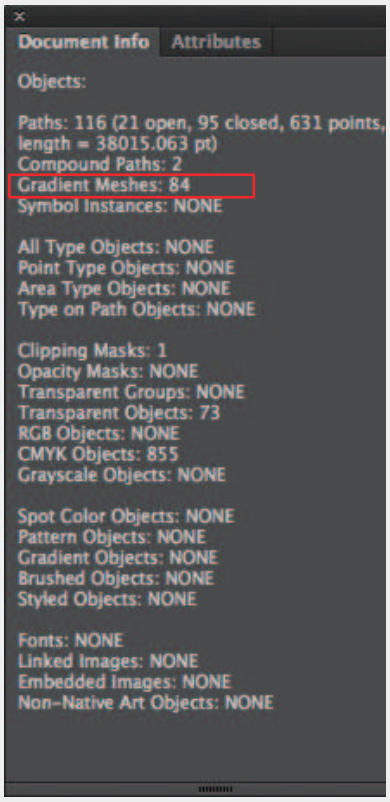
Unselect the [Compatible gradation and Gradation and Gradation mesh print] checkbox in the Adobe Illustrator settings.

- The [Compatible gradation and Gradation mesh print] setting applies either to gradation objects or gradation mesh objects only.
  Change the setting that specifies which of these should be applied in the Adobe Illustrator [Document Information] window.

Large number of gradation objects



Large number of gradation mesh objects



RasterLink7 Reference Guide

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