Software RIP

RasterLink6

Reference Guide

MIMAKI ENGINEERING CO., LTD.

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About this manual

This manual explains the functions of “RasterLink6”.

Notations

Menu items are enclosed in quotation marks like [Full Color].
Buttons in dialog box are framed like Update .

Symbols

Indicates a caution you must observe when operating the product.

Describes a useful procedure.

Shows the number of the page that has related contents.

About Terms

Job : A “Job” means a printing file that is handled by RasterLink6. Once data in any format from application software such as Adobe Illustrator is spooled in RasterLink6, it is registered in RasterLink6 and becomes a job.

Scan : “Scan” on the RasterLink6 means the head moving direction (Y direction) of the printer.

Feed : “Feed” on the RasterLink6 means the media moving direction (X direction) of the printer.

RasterLink6 Software Configuration

RasterLink6 consists of the following software.

RasterLink6

Software that receives various image data, performs many different kinds of edits on them and sends drawing data to the printer

Profile Manager

Software that manages the device profile and the input profile used in RasterLink6
(☞Installation Guide P.30)

RasterLinkTools

Plug-in software to print & cut and create data for special color in Adobe Illustrator and CorelDRAW (☞ P.157)

License tool

License activation is required to use RasterLink6. License tool is the tool to perform license activation. (☞ Installation Guide P.15)

Update tool

Tool to download the latest program and the latest profile via the Internet and apply them
(☞ Installation Guide P.24 and P.25)

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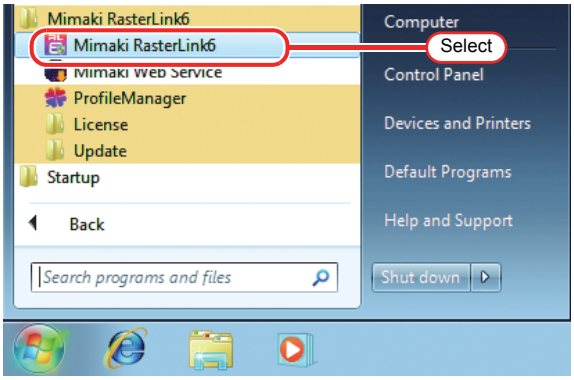
Basic Information of RasterLink6

RasterLink6 start-up

For Windows XP/ Windows Vista/ Windows 7

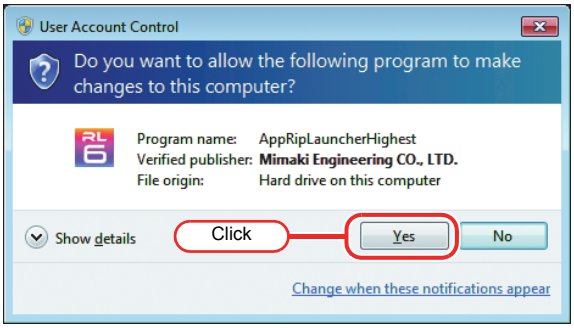
1 **Select [Mimaki RasterLink6];[Start] - [All Programs] - [Mimaki RasterLink6] menu.**

- Or double-click the “Mimaki RasterLink6” icon on the desktop.



2 **User Account Control screen is displayed.**

3 **Click** Yes **.**



If the security center symbol (shield) is displayed

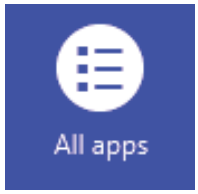
- If the security center symbol (shield) is displayed, in order for a file to be executed, display the User Account Control screen and make sure that file execution is permitted.

4 **RasterLink6 starts.**

For Windows 8

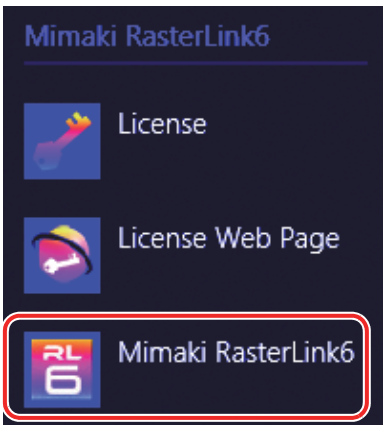
1 **Right-click on the Start screen.**

- On the bottom-right side of the screen, the [All apps] icon is displayed. Click it.



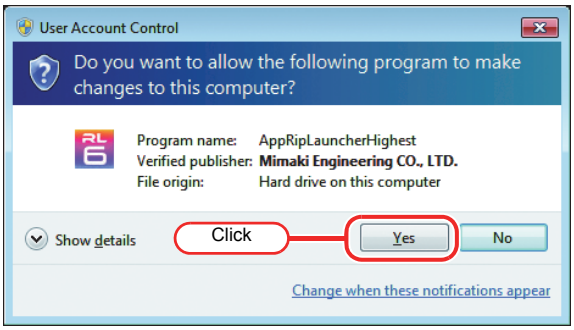
2 **The screen changes to the application screen.**

- Click [Mimaki RasterLink6].
- Or, double-click the [Mimaki RasterLink6] icon on the desktop.



3 **User Account Control screen is displayed.**

4 **Click** Yes **.**



If the security center symbol (shield) is displayed

•If the security center symbol (shield) is displayed, in order for a file to be executed, display the User Account Control screen and make sure that file execution is permitted.

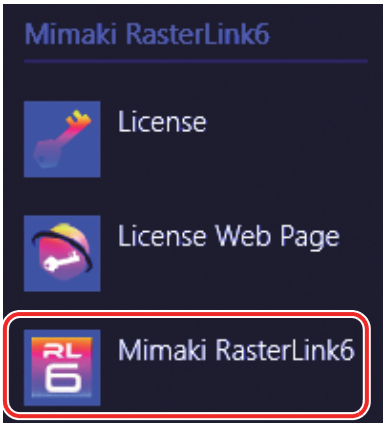
5 **RasterLink6 starts.**

For Windows 8.1

1 **Click the arrow icon in the bottom left of the Start screen.**

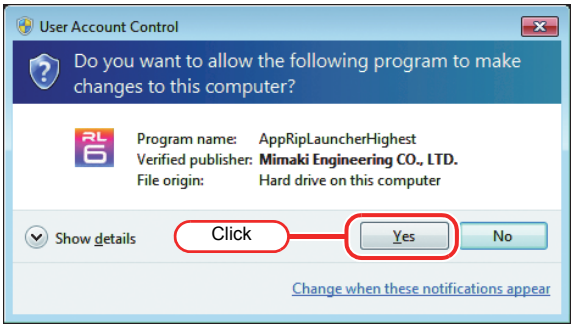
2 **The screen changes to the application screen.**

- Click [Mimaki RasterLink6].
- Or, double-click the [Mimaki RasterLink6] icon on the desktop.



3 **User Account Control screen is displayed.**

4 **Click** Yes **.**



If the security center symbol (shield) is displayed

- If the security center symbol (shield) is displayed, in order for a file to be executed, display the User Account Control screen and make sure that file execution is permitted.

5 **RasterLink6 starts.**

Important!

Depending on the authority of user who started RasterLink6, the available function is limited.

Authority of user	Unusable function
Other than administrative right	To create hot folder and printer driver. (☞P.129)
Administrative right (Windows Vista and later)	To read an image by drag & drop. (☞P.20)

Screen configuration

RasterLink6 performs various settings on the main screen display by selecting the function icon at the right on the screen and changing it.

Common item

1. Function icon

You can change the main screen by pressing these icons.
When the screen height is not big enough to display all icons, the scroll bar is displayed.
You can change the size of these icons or can hide unnecessary icons. (☞ P.155)
Depending on your printer, the displayed function icons differ. In addition, depending on the job condition selected in the job list, some function icons are displayed in gray and you cannot select them.

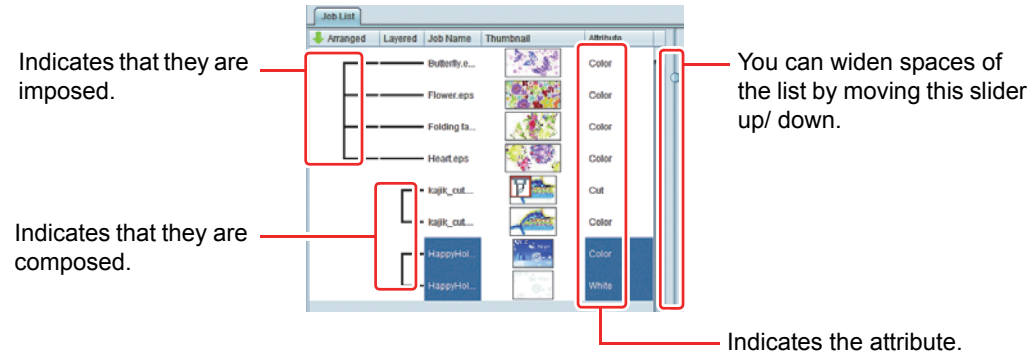
2. Job List

The job list is displayed.

- This screen is displayed when you select the function icons below:
  Job property, imposition, composite, Special plate, Execution, copy, backup/ restore and deleting jobs

For each line

Arranged	Imposed (☞ P.35) jobs are connected with a line and displayed.
Layered	Composed (☞ P.88) jobs are connected with a line and displayed.
Job Name	The job name is displayed. You can change this in the job property (☞ P.29).
Thumbnail	The thumbnail image is displayed.
Attribute	The job color attribute is displayed. Though the image is [Color], for the job on which you specified single color replacement (☞ P.31) and the job created in the plate creation (☞ P.78), the specified color is displayed. In addition, for the printer cutter, the job for cut is displayed as [Cut].



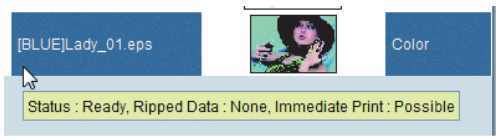
Job background color

Job background color has the meaning below:

Color	Status *1	Notes
White	Waiting	
Green	Waiting	
Cream color	Partially printed	"Partially printed" refers to any of the following states: • Not all tiles were printed by using the split print function. • For Print & Cut jobs, Print Only or Cut Only was executed. • For the multiple pages job, not all pages were printed.
Pink	Terminated	
Magenta	Error	
Blue	Running	

*1. If there is ripped data, it is displayed by boldface.

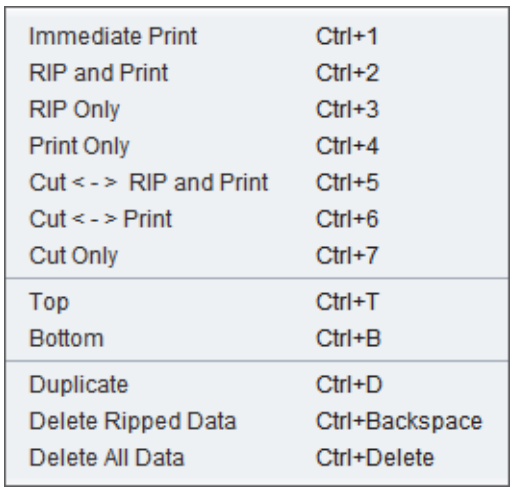
Tool tip



When you put the mouse onto the job, the status of that job is displayed in the tool tip.

• Displayed data
Status/ with or without RIPped data/ whether RIP & print are available/ image editing type

Popup menu



When you select a job and click the right button of the mouse, the popup menu is displayed.

Immediate Print / RIP and Print / RIP Only / Print Only/ Cut < - > RIP and Print (only Print cutter) / Cut < - > Print (only Print cutter) / Cut Only (only Print cutter)
Executes the job respectively.
For details, refer to [Execution] P.118.

Top Moves to the top of the job list.

Bottom Moves to the bottom of the job list.

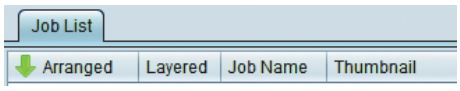
Duplicate Duplicates with the setting of the [Duplicate] screen P.121.

Delete Ripped Data If there is ripped data, deletes the ripped data.

Delete All Data Deletes the selected job.

Double-click the job
Moves to the normal printing screen (☞P.41).

Sort
Click [Arranged] at the left end of the job list header bar to have the items sorted in ascending/ descending order.



3. Printer status

Information of the printer that has been connected is displayed.

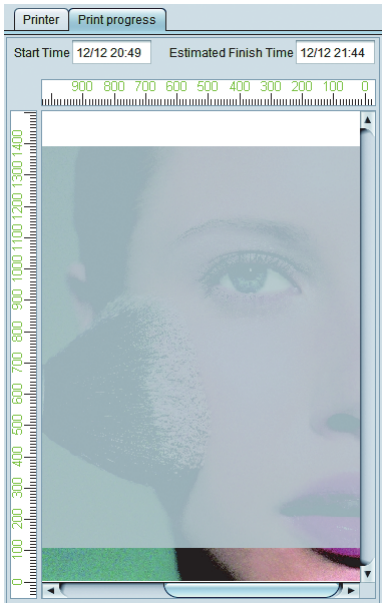
- This screen is displayed when you select the function icons below:
  Job property, imposition, composite, print, copy, backup/ restore and deleting jobs
- Depending on the printer, the displayed contents differ.

4. Job queue list (For details, ☞ P.120)

The status of the process, RIP and print at reading the image is displayed.
You can abort/ delete/ change printing order of the job that has been processed.

- This screen is displayed when you select the function icons below:
  Job property, imposition, composite, Special plate, Execution, copy, backup/ restore and deleting jobs
- If “Auto Exceution” (☞P.147) has started, “Auto Executing” will be displayed in the tab.

5. Print progress screen



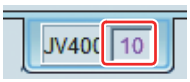
Opening this screen while the printer is printing enables you to check how far the printing has proceeded at the current moment.
To display this screen, select [Enviroments]-[Option...]-[Display]-[Display print progress]. ☞ P.153
This screen can be displayed with the following models:
JV400-LX, JV400-SUV, TS500, TX500, UJV500
JV300, JV150, CJV300, CJV150

- If the length of the print image exceeds 100 m, it will be displayed divided into sections of 100 m.

Important!
- The print progress is not displayed when settings are made for Print & Cut jobs and the Pull-back printing.

6. Printer tab

Switches the main screen by printer registered in the printer management (☞P.154).
Total number of jobs read for that printer is displayed beside the printer name (number in red frame in the figure below).



- You can create jobs up to 200 in total for all printers.

7. Working Disk

The used amount of the disk in which the folder (work folder) to manage job information of Raster-Link is displayed.

8. Physic. Mem.

The current used amount of the memory of this computer is displayed.

9. Message display

The progress status of the process is displayed.

- As the error is displayed in red, be sure to check it.

Flow up to print

When you print one image, it is performed in the following procedures.

(1) Read the image in RasterLink6.
(2) Set the basic settings such as enlargement/ shrinkage.
(3) Output.

Read an image in RasterLink6

There are four methods to read an image into RasterLink6.

Important! • You can read jobs up to 200 in total for all registered printers. If you try to read more, an error occurs.

[File] menu

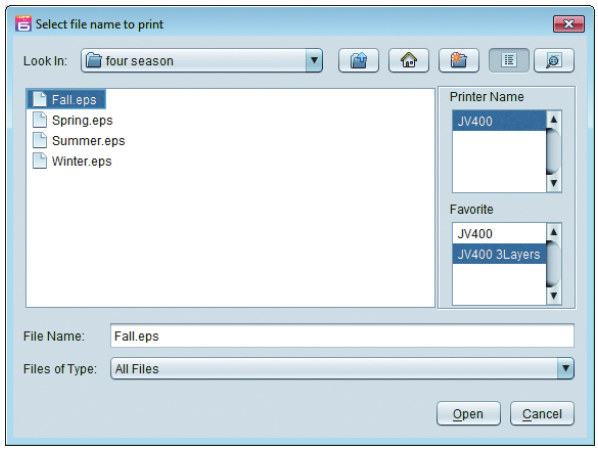
1 **Select [Open] from the [File] menu.**

• The [Select file name to print] dialog is displayed.

• You can display it also by pressing Ctrl + O.

2 **Select an image to read.**

• When you registered multiple printers, select the dedicated printer from [Printer Name].
• Select the initial condition of the job after reading from [Favorite]. For “Favorite”, refer to P.129.
• The selected “Favorite” will be selected by default from the next time.



• You can select multiple images to read.

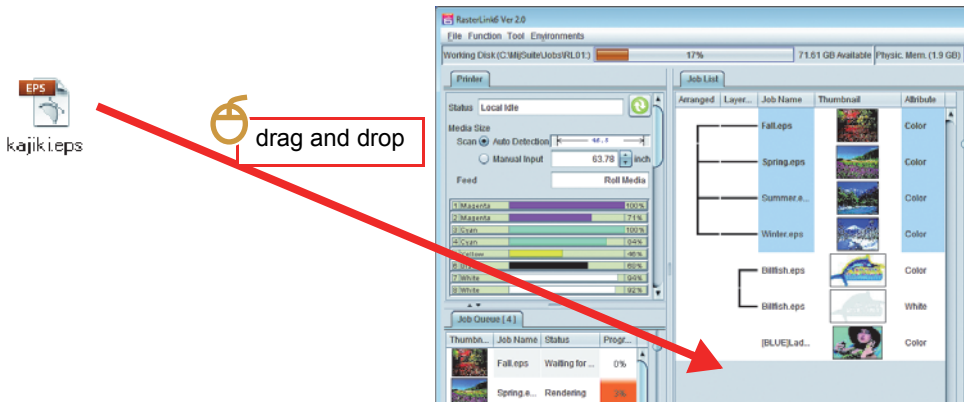
Important! • You cannot read an image with selecting a shortcut file.

3 **After selecting all image files, press [Open].**

4 **The image is read into RasterLink6 and a job is created.**

Drag & drop into Job List

1 Drag & drop an image to be read into [Job List].



2 The [Select file name to print] dialog is displayed.

- The rest is the same as reading by using the [File] menu.

Important!

- When you use the windows OS of Windows Vista and later, and you start RasterLink6 with administrator's right, even if you drag & drop the file into the job list, it is not read in.

Hot folder

Copy a file to the special folder (hot folder) to automatically load the image.
You can create this for each [Favorite](☞P.129), and the condition set for "Favorites" is also set for the read job by default.
For the creating method, refer to P.129 and when you use via the network, refer to the Network Connection Guide.

1 The hot folder is in the directory below:

- [Install folder of RasterLink6]\Hot\Favorite name

- As the hot folder is automatically set to be shared at creation, you can copy it via the network.

2 Copy an image file in the hot folder.

- A job is created.

Printer driver

By using the printer driver created in RasterLink6, you can send an image directly to RasterLink6 from an application.
You can create this for each [Favorite], and the set condition for “Favorites” is also set for the read job by default.
For the creating method, refer to P.129 and when you use via the network , refer to the Network Connection Guide.

1 Perform [Print] of each application.

- As the printer driver is automatically set to be shared at creation, you can refer to via the network.

2 Select the same name printer as [Favorite] from printers and print.

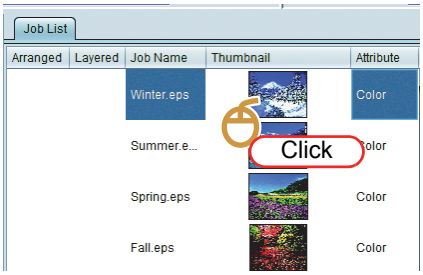
Important!

If an image is not displayed in the job list after you read it, it is possible that the following problems occur.

- When you register multiple printers, the printer tab currently displayed may not be the printer selected for [Printer Name] in the [Select file name to print] dialog. Change the printer tab.
- Total number of jobs may exceed 200 in total for all printers. Check the message display.

Select a job

1 **You can select a job with a click of a mouse from the job list.**

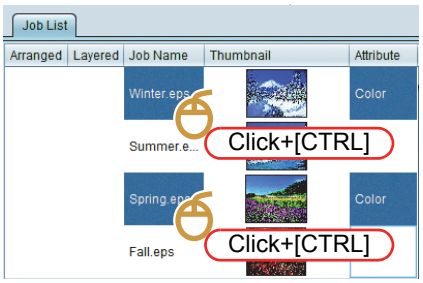


Select continuous and multiple jobs

After selecting the top job with a click of a mouse, click the last job while pressing [SHIFT].

Select multiple jobs intermittently

Select them with a click of a mouse while pressing [CTRL].



Perform the basic setting such as enlargement/ shrinkage

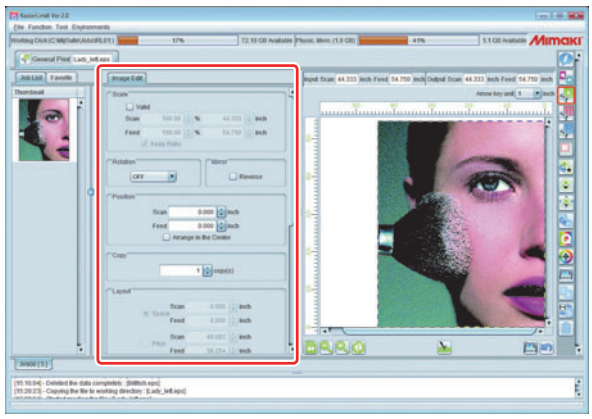
1 **Select a job to print from the job list.**

2 **Select (General Print) from the function icons.**

- The main screen is changed to the general printing screen.

3 **On the general printing screen, you can perform the setting below:**

[Scale]	Enlarges/ shrinks the image.
[Rottion]	Rotates the image.
[Mirror]	Makes the image into the mirror image for right and left.
[Position]	Specifies the printing position of the image.
[Copy]	Makes the specified number of copies of the image.



Output

1 On the general printing screen, press the (Execution) button under the Preview screen.

• The screen is changed to the [Execution] screen and the printing operation starts.

• The printing method differs depending on the setting of the last performed method. For the performing method type, refer to P.119.

Terminating RasterLink6

1 **Select [Exit] from the [File] menu.**

You can also terminate in the methods below:
- Press Ctrl + Q.
- Press “x” at the upper right of the main window.

- After RasterLink has been terminated, the job read/ set by that time is automatically saved.
- After restart, the job automatically saved is read automatically.

Function Explanation

About each function icon

Button (*)	Function	Outline	Shortcut keys	Page
	Job Properties	Displays job/ printer information and changes job attribute.	Alt+I	P.29
	Arrangement	Sets imposition of multiple jobs.	Alt+A	P.35
	General Print	Sets the size/ the position/ the number of copies of the image and prints.	Alt+G	P.41
	Jig Print	Arranges the image to the jig and prints. This function is displayed only for the flat-bet printer.	Alt+J	P.29
	Tiling	Prints the image by splitting it. With a flat-bed printer, this icon is not displayed in the initial settings (**).	Alt+T	P.63
	Step & Repeat	Prints the image by lying repeatedly without any spaces. With a flat-bed printer, this icon is not displayed in the initial settings (**).	Alt+S	P.72
	Crop	Cuts a part of the image.	Alt+C	P.76
	Special plate	Creates the job dedicated for special color from the selected job. This function is displayed only for the printer with special ink cartridge.	Alt+P	P.78
	Composition	Prints multiple jobs by overlapping them.	Alt+M	P.80
	Layer	Sets the layer print. This function is displayed only for the printer with special ink cartridge.	Alt+L	P.88
	Quality	Sets the printing condition.	Alt+Q	P.92
	Color Replacement	Sets the color replacement.	Alt+R	P.104
	Execution	Executes the selected job.	Alt+X	P.118
	Duplication	Duplicate the selected job.	Alt+U	P.121
	Backup / Restore	Saves and restores the job.	Alt+B	P.122
	Delete	Deletes the job.	Alt+D	P.124

(*) With UJF-3042HG and UJF-6042,Kebab icons will be displayed in addition to the above. Concerning this functions, refer to the separate Kebab System Operation Manual.

(**) Nondisplayed icons can be displayed by means of the “Function icon setting” (☞P.155) in [Printer Management...] (☞P.154).

Important!

- Depending on the printer and ink set, some of the functions may not be displayed.
- Depending on the function settings, some items may be unselectable (grayed out). Pressing the shortcut keys for the functions in question will display the reasons why they cannot be selected, in the message area.

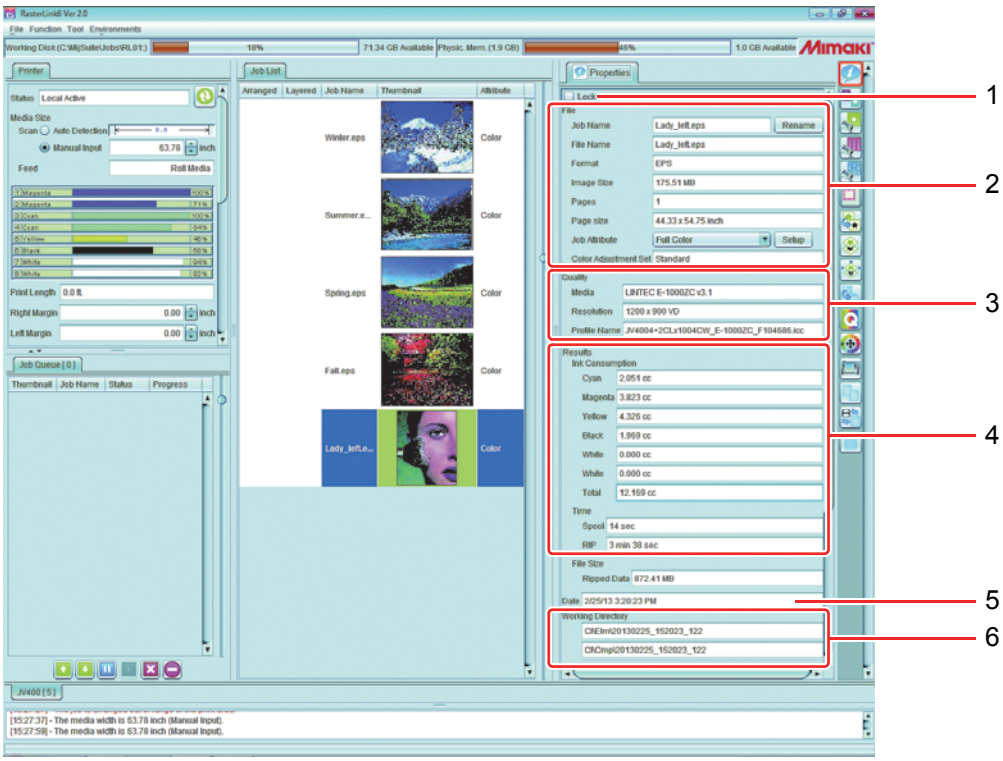
Displays job information- Properties

Function

On the [Properties] screen, you can perform the operation below:

- **Change the job name.**
- **Change the job attribute (full-color print/ special plate print/ UV irradiation etc.).**
- **Display job information.**

Screen configuration



1. Lock

Turning this on makes it impossible to change the settings for, or to delete, the selected job(s).

Important!

- When a job is locked, no functions can be executed for it except [Special plate][Backup] and [Execution].
- Locking a single job in a group of jobs that have been composed or imposed will lock all the other jobs in that group.

2. File

Displays the job and the image information which created the job.

Job Name Displays the job name. Though the default name is the file name of the original image, you can change it. (☞P.31)

File Name Indicates the file name of the image.

Format Displays the file format of the image.

Image Size Displays the file size of the image.

Pages Displays the number of pages of the image.

Page Size Displays the size of one page.

Job Attribute Displays or sets the attributes below depending on the printing method.

- **Full Color** Job to print with colors of the original image. This is the default of the image job.
- **Mono Color** Attribute that can be set only when the original image is CMYK color mode.
  Prints with assigning either of CMYK to the specified ink color.
  For details, refer to P.31.
- **Special Color** Job created in the [Special plate] function (☞P.78). You cannot change to other attribute. For details, refer to P.78.
- **Cut Only** Only for print cutter) Job of cutting data. You cannot change to other attribute. Concerning print-and-cut, refer to ☞P.125.

3. Quality

Displays the following conditions set in the printing condition (☞P.92).
Media, resolution, profile name

4. Results

Displays various results after performing RIP and print.

Ink Consumption Calculates the ink amount to be consumed by printing from ripped data and displays them by ink.

- Depending on the combination of the machine type and ink, as data required for calculation is not available, the ink amount to be consumed cannot be displayed in some cases. In such a case, the message to inform you accordingly is displayed. Data will be added by update in sequence.
- When the ink amount to be consumed is not calculated by the option setting (☞P.152), this column is not displayed.
- For some machine types, the ink amount to be consumed cannot be calculated if you do not connect it with the printer.

Time Displays the time for each processing.

5. Date

Displays the date and time when you registered the job.

6. Working Directory

Displays the working directory name where the job information is stored.
The actual working directory is right under the directory indicated in [Working Disk] of upper left of the screen.
e.g.)
Working disk : C:\MijSuite\Jobs\RL01
Working directory : Cl\Elm\20121217_110309_252
→The actual folder is
C:\MijSuite\Jobs\RL01\Cl\Elm\20121217_110309_252

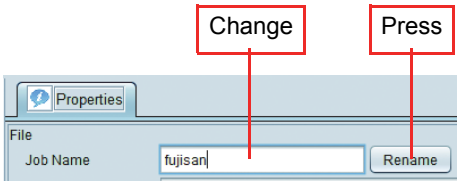
Operation

Change the job name

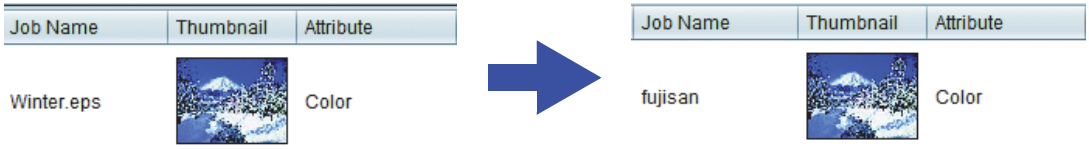
You can change the job name.
Use this when you read the same image file several times or when you copy the job to distinguish from each other.

1 Enter any name into [Job Name] of [Properties] and press the [Rename] button.

• The job name is changed.



• In addition, [Job Name] of [Job List] is also changed.



Perform setting to print a full-color image with one ink color -Mono color replacement

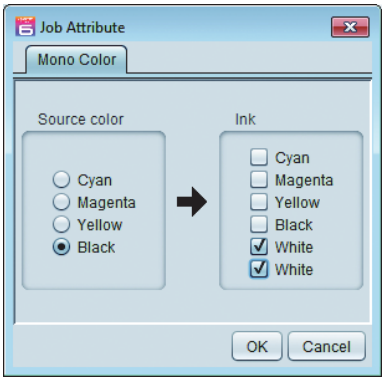
Use this when you print special color ink (white/ clear/ primer etc.) with one color etc.

Important!
- You can perform single color printing only for CMYK color mode image. (It is unavailable for RGB color mode.)
- You can perform single color replacement both for the illustrator (vector) and the image (raster).

1 Select a job of which [Job Attribute] of [Properties] is “Full Color”.

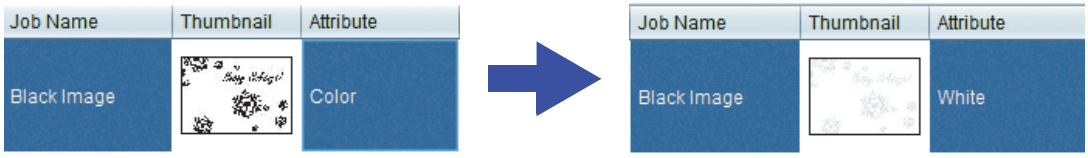
2 Select “Mono Color”.

- The [Job Attribute] dialog is displayed.
- Select the color to be replaced in the original image from [Source color].
- Select the ink color to use from [Ink].
- When there is more than one same ink color, you can select that ink color more than one.



3 Press the OK button and close the dialog.

- [Job Attribute] of [Properties] is changed to “Mono color”.
- Thumbnail and attribute in the job list are changed according to the set condition.



Important!

- For the full-color image, color information other than specified ones as [Source color] are discarded and is not printed.
- The density of [Source color] is applied to the ink density to be printed.

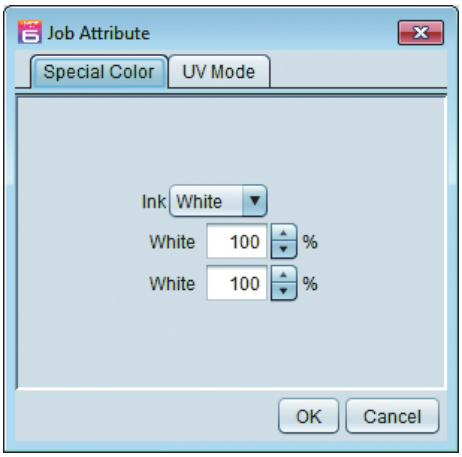
Change the ink density etc. of the special color plate created in [Source colorSpecial plate] function

When the job attribute is “Special Color”, you can change ink color and ink density of special color ink.

1 Select a job of which [Job Attribute] of [Properties] is “Special Color”.

2 Press the setting button of [Job Attribute] of [Properties].

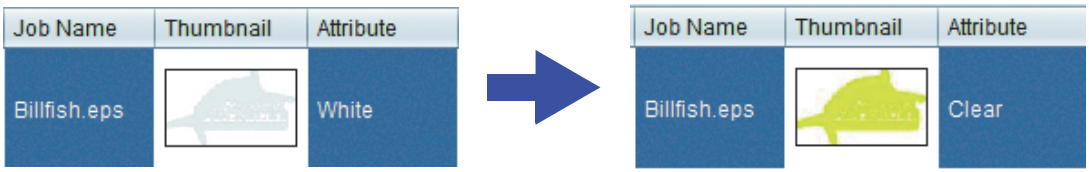
- The [Job Attribute] dialog is displayed.



3 Change [Ink] and its ink density.

4 Press the OK button and close the dialog.

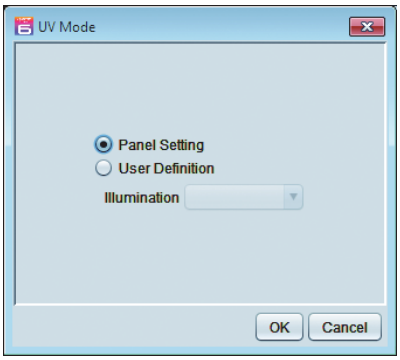
- When you change ink, the attribute of the job list is changed.



For UV printer

If you use a UV printer, you can perform UV irradiation setting. The setting contents vary with the model and the job attributes.

● When job attribute is color/ white/ primer

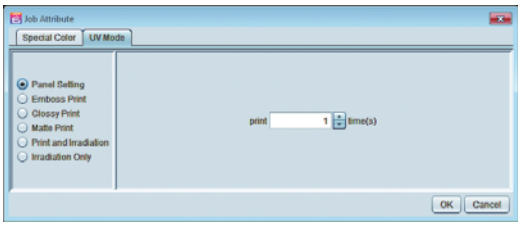


Set the illuminance of the UV lamp.

● The explanation from here is for clear of the job attribute.

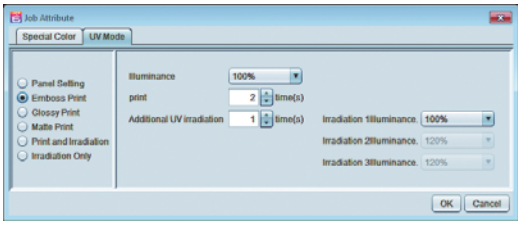
- When the job attribute is clear
  Specify the printing method of the cleat ink plate.

- **Panel Setting**



The illuminance is the panel setting value.
Specify the number of clear plates to be overlapped.

- **Emboss Print**



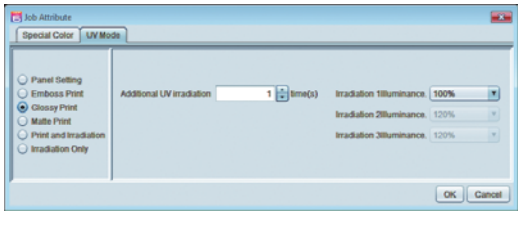
By overprinting multiple times while irradiating clear ink, it performs emboss print.

Illuminance : Set the illuminance at printing.

Print : Specify the number of overprints.

Additional UV irradiation :
For emboss print, as it is not cured only with irradiation at printing, it is necessary to additionally perform irradiation only. Set the number of irradiations and the illuminance at that time.

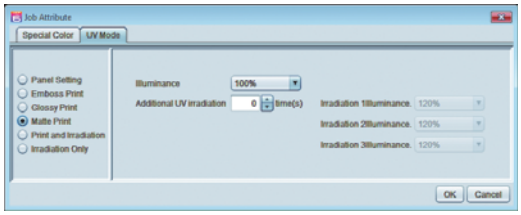
- **Glossy Print**



Prints clear ink with the irradiation setting to be glossy, with a smooth surface.

Additional UV irradiation :
To cure fully after printing clear ink, additionally performs irradiation only. Set the number of irradiations and the illuminance at that time.

- **Matte Print**

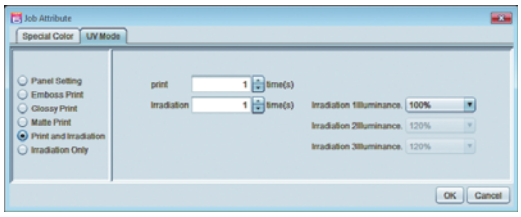


Prints once while irradiating clear ink. As it cures right after printing with irradiation, uneven feeling remains and it becomes matte.

Illuminance : Set the illuminance at printing.

Additional UV irradiation :
Set this if additional irradiation is required. Set the number of irradiations and the illuminance at that time.

- **Print and Irradiation**

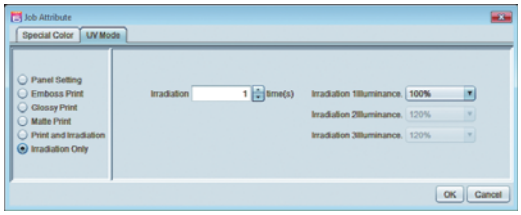


Prints without irradiating clear ink. You can specify the number of overprints.

Print : Specify the number of overprints.

Illuminance : Set the number of irradiations after printing and the illuminance at that time.

- **Irradiation Only**



Does not print at all and performs irradiation only.
If curing is not enough, you can perform irradiation additionally.

Illuminance : Set the number of irradiations and the illuminance at that time.

Collect multiple images - Arrangement

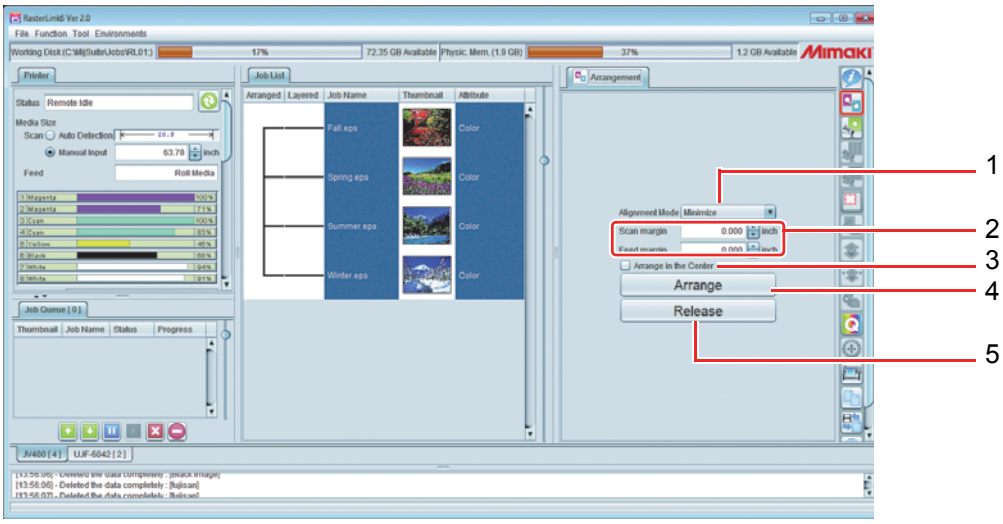
Function

In [Arrangement], you can perform the operation below:

- Make collective print of multiple images.

- In RasterLink, outputting multiple images at a time is called as “Imposition print”.

Screen configuration



1. Alignment Mode

For setting the method of lining up a job group when the [Arrange] button is clicked.
To lay out the individual jobs in any desired positions, use [General Print] (P.41) after arrangement.
For details, refer to next page.

Sequential Arranges jobs in the media feeding direction.

Minimize Arranges jobs so that you can use the media effectively.

No rotation The jobs will be laid out by the same method as for minimum area, but will not be automatically rotated.

2. Scan margin / Feed margin

Set the spaces between images by the width and the feed. This value is will be applied when the [Arrange] button is clicked. Change [General Print] (P.41) after arrangement. For details, refer to next page.

3. Arrange in the Center

When checked, the imposed job entire area is arranged at the center of the media. This value is will be applied when the [Arrange] button is clicked. Change [General Print] (P.41) after arrangement.
For details, refer to P.37.

4. Arrange

Imposes multiple jobs selected in the job list. Depending on the job setting, imposition cannot be performed with some conditions. For details, refer to P.38.

5. Release

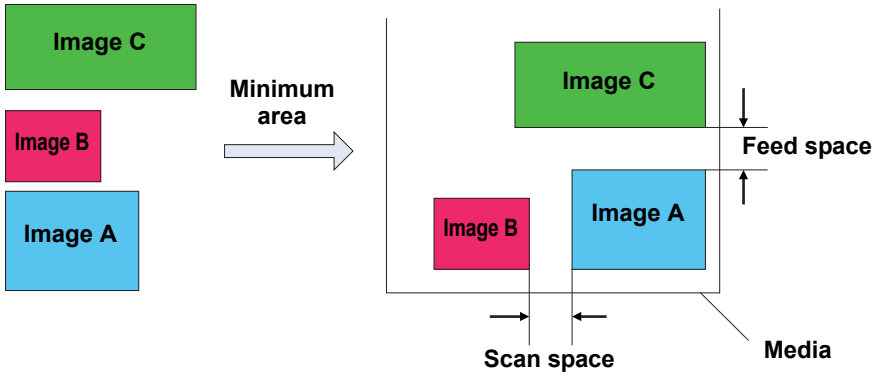
Cancel the imposition setting of the imposed job selected in the job list.

Arrangement setting of imposition

When you press the imposition button, the selected multiple images are arranged. You can specify the arrangement method at that time from two types.
It is possible, via [General Print], to carry out arrangement on jobs for which you have specified a number of copies. If you do so, the inter-image spacing that you specified for such jobs will be overwritten with the spacing setting for arrangement.

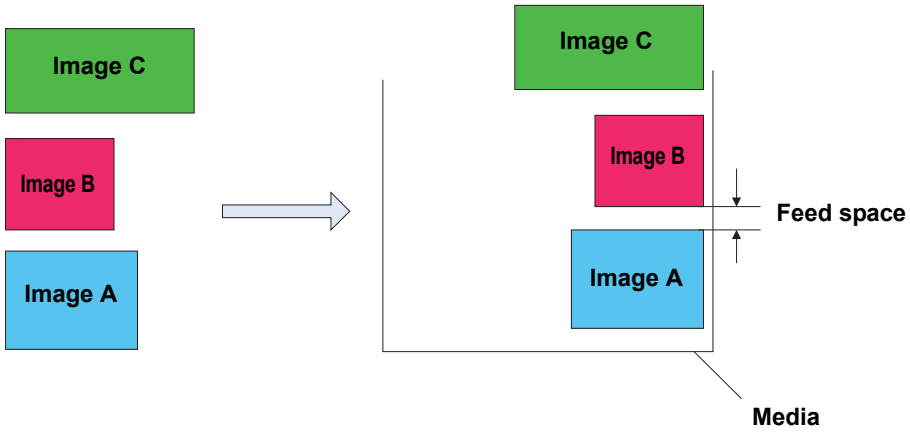
Minimize/ No rotation

Arranges images so that the printing area may become minimum. With “Minimum area”, the jobs may sometimes be rotated automatically. With “No rotation”, the jobs will not be rotated.



Sequential

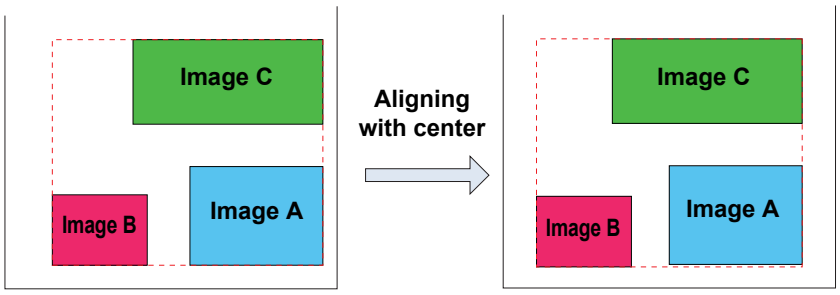
Arranges images in the media feeding direction. To arrange so that the length becomes minimum, the job is rotated automatically in some cases. You can specify the feed space.
You can perform print images in sequence with the continuous print instruction simply, however, at this time, the printer puts a certain amount of space between images. You can instruct the space between images correctly in the imposition print in sequence.



Arrange in the Center

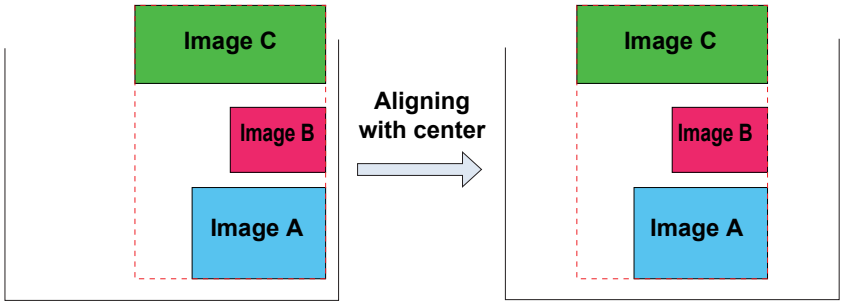
Arranges the imposed image with the center of the media width.

Minimize



The center of the entire imposed image is arranged with the center of the media width.

Sequential



Arranges the borderline rectangle surrounding all images (dotted line part) at the center of the media width.

Conditions for imposition

Maximum arrangeable number of jobs

Up to 30 jobs can be arranged.

Editing conditions that you cannot perform imposition

For the job with the setting below, you cannot perform imposition:
- Tiling
- Step & repeat

In addition, you cannot impose other job with the already imposed jobs. In such a case, first release imposition once and then perform imposition.

When you impose composed job

You can impose multiple composed jobs, however, there are the conditions below:
- When you overprinted special color, the printing order of special color and color are the same for all jobs to be imposed.
- For flatbed machine, the number of printing moves are the same for all jobs to be imposed.

Carrying out arrangement on print & cut jobs

It is possible to carry out multiple arrangement of print & cut jobs, but there is the following condition for this:
- It is not possible to carry out arrangement of combinations of print & cut jobs with color-only or cut-only jobs.

About printing condition

Conditions unavailable for imposition

You cannot impose the jobs if the conditions below differ:
Output resolution, (only for UV printer) UV mode

If the conditions other than above differ

If the printing conditions below differ, all become the same condition as the top job:
Pass, number of overprints, halftone, high-speed printing, printing direction
drying time by scanning, [Cut Media after Print] margins before and after printing, end margin feed, heater standby, heater OFF, absorption fan, device adjustment, dot size, distance correction, work change,Cut Quality.

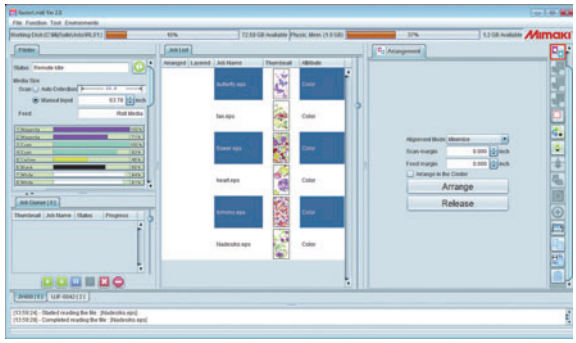
For the conditions other than above, you can impose even if the settings differ.

Procedures to impose

Perform imposition

1 **Select multiple jobs to be imposed.**

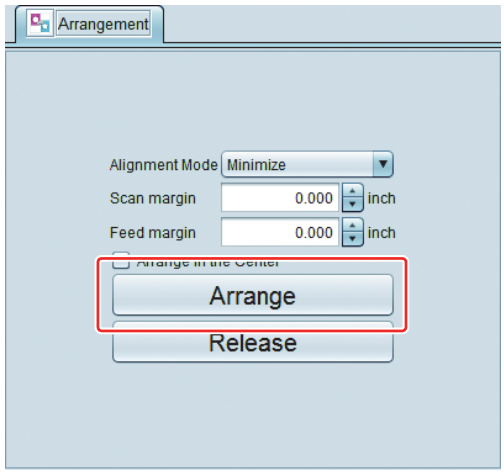
- For the method to select multiple jobs, refer to P.22.

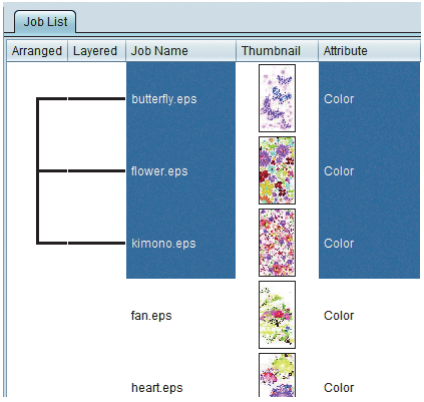


2 **Select the [Arrangement] icon.**

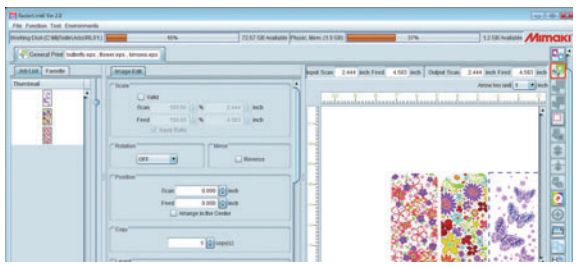
3 **Set the alignment mode, margins and with/ without “Arrange in the center”. Then click [Arrange].**

- The selected jobs are displayed in a lump in the job list and lines are displayed for imposition.





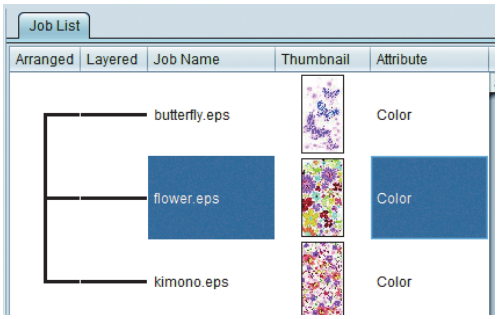
4 **When you select the [General Print] icon, they are imposed and displayed in the preview screen.**



Release imposition

1 Select a job to release its imposition.

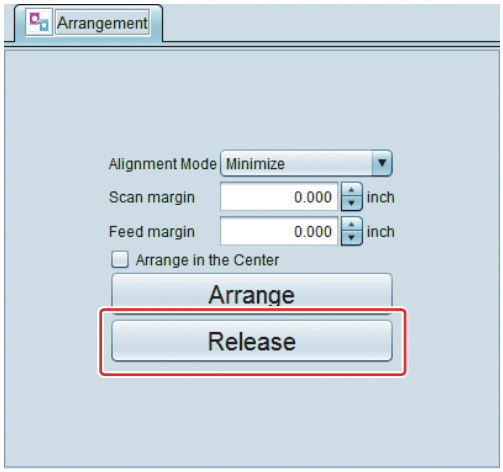
- Imposition of the selected job only is released. If you release all impositions, select all jobs.

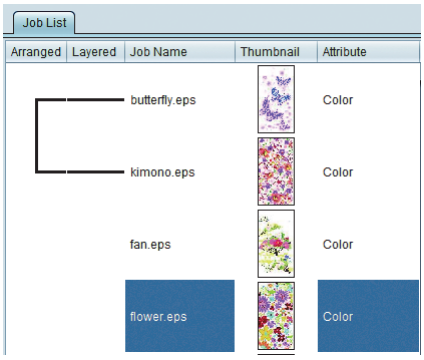


2 Select the [Arrangement] icon.

3 Click [Release].

- Imposition of the selected job is released.





Perform basic image edit and print
- General Print

Function

You can perform the operations below in [General Print].

- Enlargement/ shrinkage, rotation and mirror of image
- Arrangement of image (moving and copy layout)
- Addition of register mark
- Addition of printing information label
- Performing print

Screen configuration

Rough configuration

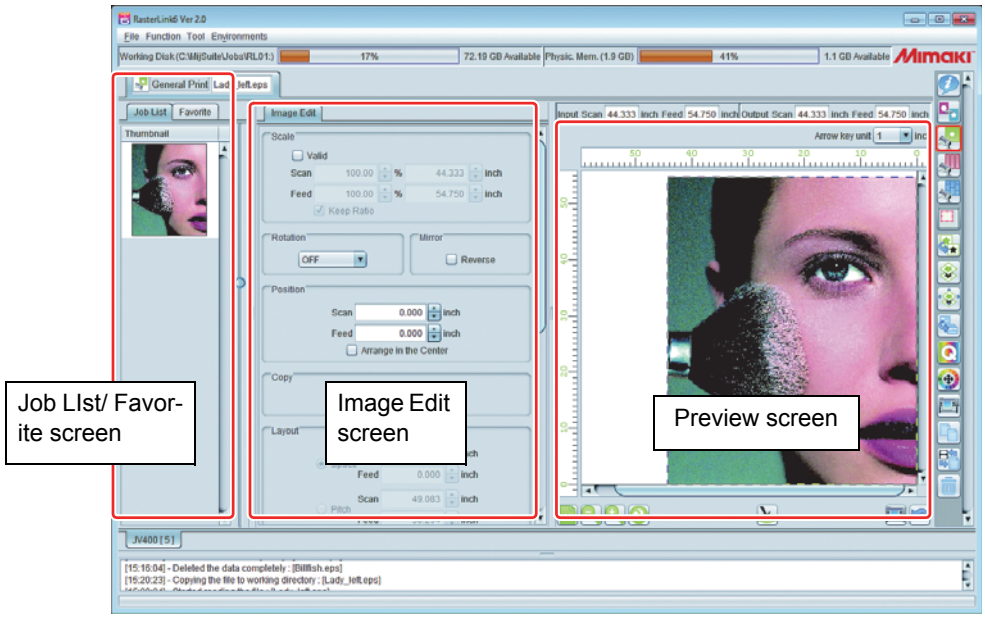
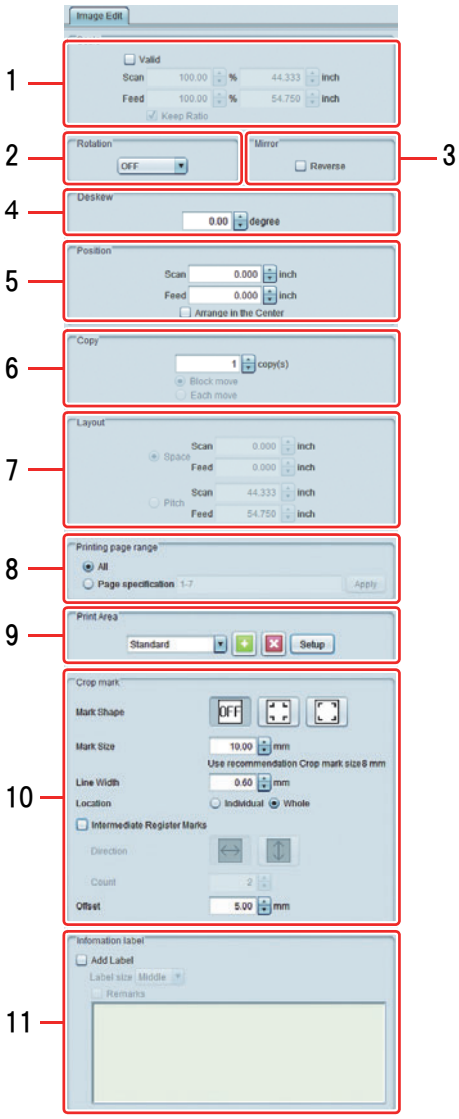


Image Edit screen



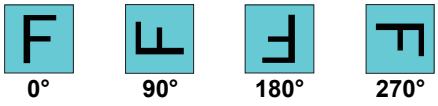
1. Scale

Specifies the printing size of the image. You can specify it by magnification (%) or the actual length size.

- When [Keep Ratio] is ON, you can enlarge/ shrink with the aspect ratio fixed.

2. Rotation

Rotates the image. You can set the values below:



3. Mirror

Makes the mirror image.

- When mirror and rotation are used at the same time, first mirror image is made and then it rotates.

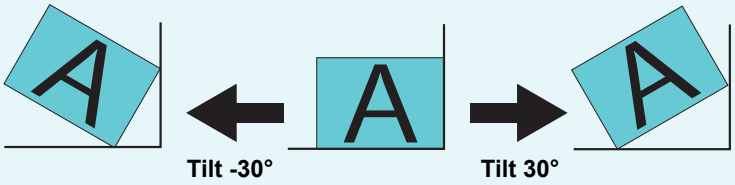
When rotation is 0 degree

When rotation is 90 degrees

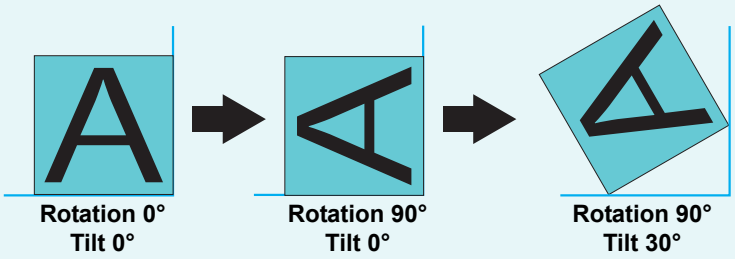
4. Deskew(Only flat-bed printer)

For tilting images, in a range of −45 to +45 degrees. Use this when you print onto objects that are placed tilted relative to the table.

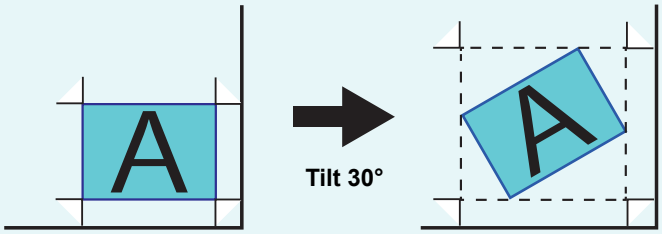
- When [Deskew] is applied, the right and bottom positions of the tilted image will be the same as before tilting.



- [Rotation] and [Deskew] are both in the counterclockwise direction.
- When [Rotation] and [Deskew] are combined, the result will be as shown in the figure below.



- With the arrangement function, it is possible to specify tilt angles for the individual images.
- When 2 or more has been specified as the number of copies, and in the case of multipage jobs, the same tilt angle will be applied for all the images.
- When arrangement is used with 2 or more specified as the number of copies, and when tilting has been specified for multipage jobs, tilting will be applied to individual jobs.
- If a registration mark is specified, it will not be tilted. Rather, it will be applied to the image rectangle after the image has been tilted.



- If a Information label is specified, it will not be tilted.
- When Crop (☞P.76) is set, it is the post-clopping image that will be tilted.
- Setting tiling or step & repeat after [Deskew] has been set via “General Print” will disable the [Deskew] value.

Important!

- When an image is tilted, a certain amount of jaggies will occur in the outline and linear portions. With raster data in particular, the jaggies will be salient if the resolution is low. If you are going to tilt raster data, you are recommended to create the data with a resolution that is close to the printing resolution.

5. Position

Sets the origin position of each job with the numerical value.

- When [Arrange in the Center] is ON, the image is arranged at the center of the media. When you copy or impose, as indicated in P.37, moves the entire area of multiple images to the center of the media.
- If [Lock the trimming position] is activated, jobs will be displayed with the trimming origin locked. (In the case of a roll-to-roll printer, or arranged, composed or multipage jobs, it will not be displayed.)

6. Copy

Makes the specified number of copies of the image and arranges.
The following methods for shifting of copied images can be specified:

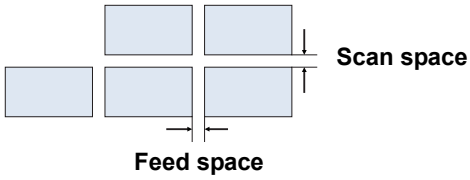
- **Block move** : All the copied images will be shifted together.
- **Each move** : The copied images will be shifted individually.

> Important! • For arranged jobs, no choice of shift method will be displayed, and the shift method will be "Each move".

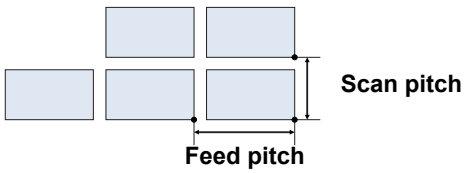
7. Layout

When the job is imposed or set to be copied and it is arranged automatically (refer to P.49 [Optimization]), specify the arranging position. After specifying, by pressing the [Optimization] button, the setting is reflected on the preview.

- **Space**
  Specifies the space between images by the numerical value. When the image is imposed, the space specification of the imposition screen is overwritten.



- **Pitch**
  Specifies the distance from the origin of the image to the origin of next image by the numerical value.
  In the following cases, pitch specification is not displayed:
  - Arrangement has been executed.
  - Multipage job (*)
  - Nesting in widthwise direction (only displayed with multipage jobs (*)) – the images in a multipage job are arranged in widthwise rows. When it is off, they are arranged in lengthwise rows.



*Multipage job: A file that contains multiple images, such as a multipage PDF or TIFF, is called a multipage job.

8. Printing page range (only displayed when multipage job has been selected)

For specifying the pages to be printed in a multipage job.

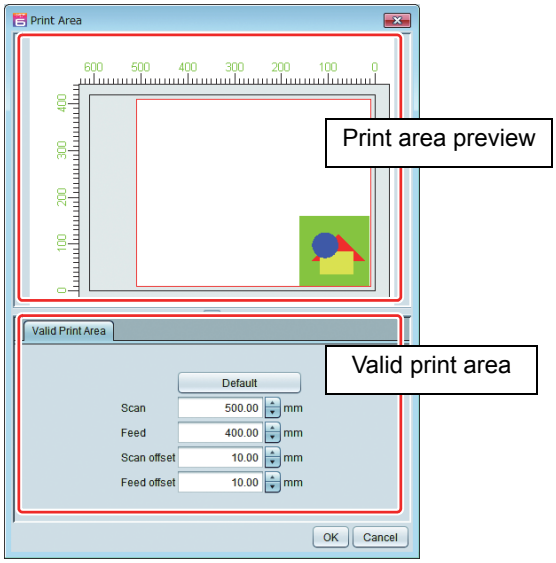
- **All**
  Prints all the pages in the file.

- **Page specification**
  Prints specified pages.
  Examples of page specification:
  - To print pages 2 to 5, enter: [2-5]
  - To print just pages 2, 4 and 6, enter: [2,4,6]
  - To print pages 2 to 5 and pages 8 and 11, enter: [2-5,8,11]

9. Print Area (only with flat-bed printer)

For registering a valid print area that matches the size of the media to be printed on.
If you register a valid print area, it will serve as a guide for laying out the images.
It will also prevent the equipment from printing outside the media.

- The print area setting is retained as a template.
- Enter a title and click the [+] button, to enable addition of a presetting.
  Now click the [Setup] button. The dialog box below will appear. You can use it to set the print area.



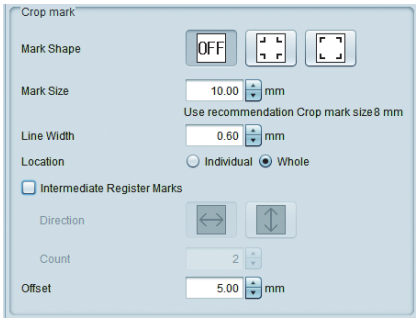
- **Print area preview**
  This displays, as a red rectangle, the valid print area set via the [Valid Print Area] menu.

- **[Valid Print Area] menu**

Default	Sets the valid print area to the maximum size and specifies the printer's initial origin position for the area 's origin position.
Scan	For entering the width of the valid print area.
Feed	For entering the height of the valid print area.
Scan offset	For entering the width-direction shift distance from the printer origin.
Feed offset	For entering the feed-direction shift distance from the printer origin.

10. Crop mark

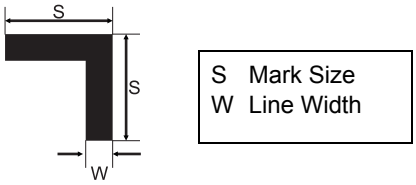
This is for applying a registration mark to images.



- **Mark Shape**
  You can select an outer or an inner registration mark. If no mark is to be printed, set “OFF”. Match the “Shape” setting with the cutting plotter’s settings.

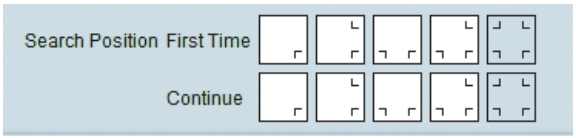
Outer registration mark **Inner registration mark**

- **Mark Size / Line Width**
  For changing the size of the registration mark. The recommended values for sensing with a Mimaki cutting plotter will be displayed as the [Recommend Mark Size]. Enter values equal to or higher than these. (The [Recommend Mark Size] will vary depending on the size of the images.)



- **Location**
  You can select whether to apply a registration mark to individual images, or to the whole of a set of laid-out multiple images.

  Individual : Applies a registration mark to individual images. During cutting, each individual image will be sensed for the mark, and this will take time. But it will lessen the discrepancy between printing and cutting. With print & cut jobs, the following screen for setting registration mark sensing locations will be displayed if you select “Individual” for registration mark printing.



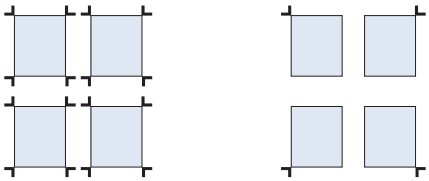
The higher the number of registration marks to be read, the higher the cutting positional accuracy will be, but also the more time sensing will take.
Different sensing locations can be set for the first sensing and for the second sensing onward.

Important!

When “Individual” is selected for Location in Crop mark , note the following points:

- When more than one is set for the number of copies and the number of images in the last line is smaller than the number of images in the first line, even after a number of cuts equal to the number of copies have been made completely, registration marks are still detected, which leads to a registration mark detection error.

Whole : Applies a registration mark to the whole of a set of laid-out multiple images. During cutting, it will only be necessary to sense the registration mark for one set, and so the time taken will be short. But the discrepancy between printing and cutting will be large relative to “Individual”.



Individual **Whole**

Important! **Pay attention to the following point if you select “Whole” for the registration mark layout.**
- The registration mark detection function cannot be used with this setting if cutting is performed with a Mimaki cutting plotter following printing. In such a case, select “Individual”.

- **Intermediate Register Marks**
  When “Whole” is selected for [Location], you can add Intermediate Register Marks. By adding Intermediate Register Marks, you can cut long paper with higher accuracy.

  Direction : Sets the split direction for Intermediate Register Marks.

  Count : Sets the split count for Intermediate Register Marks. (You can specify a value in the range from 2 to 10 for the split count.)

- **Offset**
  Set the offset of a registration mark from an image.

Important! • To set Intermediate Register Marks, set the split count so that the interval between registration marks becomes 50mm or greater.

Important! • After registration mark printing has been set for a job, it will not be possible to make the following settings for that job:
With “Whole” set for [Location]:
Tiling, Step & Repeat, Crop, Special plate
With “Individual” set for [Location]:
Tiling, Step & Repeat

11. Information label

At printing, the printing condition is printed at the rear edge of the image.Information to be printed is as below:

Firmware version, RasterLink6 version, printing date, resolution, number of passes, printing direction, rapid printing on/off, scans-per-pass, halftone feed correction setting (only with roll-to-roll printer), heater setting (only with models with heater), job name, file format, file size, scale width, scale feed, rotation, mirror, ink set, media, device profile name, color matching settings, color adjustment settings Characters entered in [Notes] space

Preview screen

1. Input/ Output

The original size of the selected job is displayed in [Input] and output size in [Output].

2. Arrow key unit

You can move the selected job with the arrow key on the keyboard. Specify the moving amount of the job for one hit of the key at that time.

3. Layout preview

Arranged position when the image is printed is displayed.
The white part inside the image is the available drawing range (in the media) and the gray part is outside range.

You can perform the followings by selecting the image with a mouse. (You can select only one image.)

- Make the selected image be the target to edit on the [Image Edit] screen.
- Move the selected image with the arrow key on the keyboard.
- Drag and move with a mouse.

4. Various button

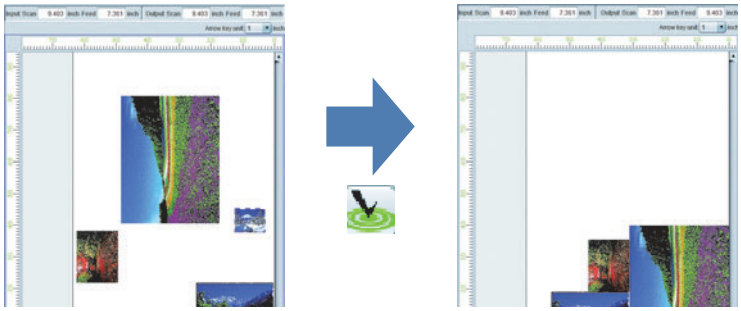
Display with media width Displays the arranging preview width as the media width.

Zoom out Zooms out the arranging preview screen.

Zoom in Zooms in the arranging preview screen.

Updating media width Obtains the media width from the printer and updates the display of the available drawing range in the arranging preview.
This is displayed only for Roll to Roll machine.

Optimization When you impose multiple images or copy, arranges the image so that the media consumed amount becomes minimum. At execution, the margin setting specified in [Arrangement] setting is used.
In the flatbed machine, if multiple images cannot fall into one plate, by performing optimization, creates new plate automatically and arranges the image that cannot be fallen into one plate in it.



Execution Executes RIP/ print. The setting of mode to execute is the one you used the [Execution] function previous time. (☞P.118)

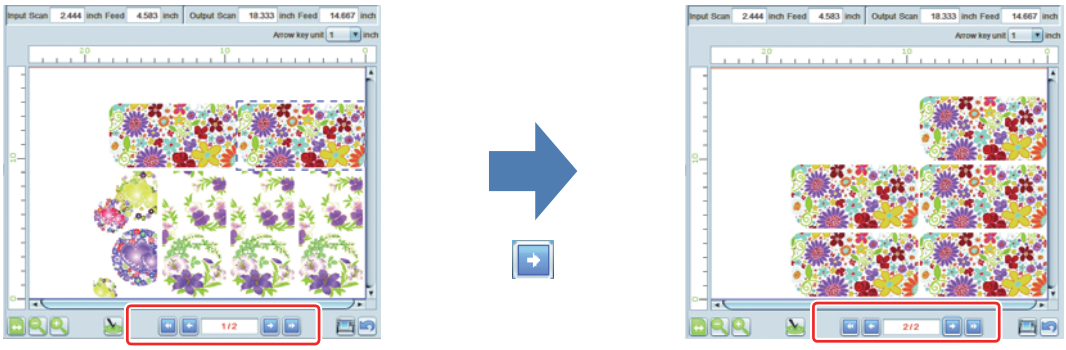
Restore Restores the setting to the one when you opened the [General Print] screen.

● For flat-bed printer

Plate information
When you impose multiple images or copy, they do not fall into the plate and therefore, it is necessary to print multiple times.

In such a situation, by pressing "Optimization", new plate is created and they are arranged in it.

When there are two and more plates, the display becomes red. By pressing , you can switch the preview screen by plate.



Job List

The imposed job is displayed.
By selecting, it becomes the target to edit in [Image Edit].

Favorite

In the [General Print] screen, you can register/ use the conditions below as Favorites.

- Scale
- Rotation
- Mirror
- Arrange in the Center
- Deskew

For the setting method and the application method, refer to P.129.

Print on the material arranged in the jig - Jig Print

What is the “jig”?

The jig means the part to fix small materials to be printed (e.g. pen, case). By fixing, you can print on it easier.

Function

You can perform the operations below in [Jig Print].

- Create a position template (hereinafter referred to as [jig template]) to print on the material arranged in the jig.
- Print the outline of the jig set in the jig template.
- Arrange the image in the jig template.
- Perform print.

Important! • This function can be used only for the flat-bed printer.

Available combination of function

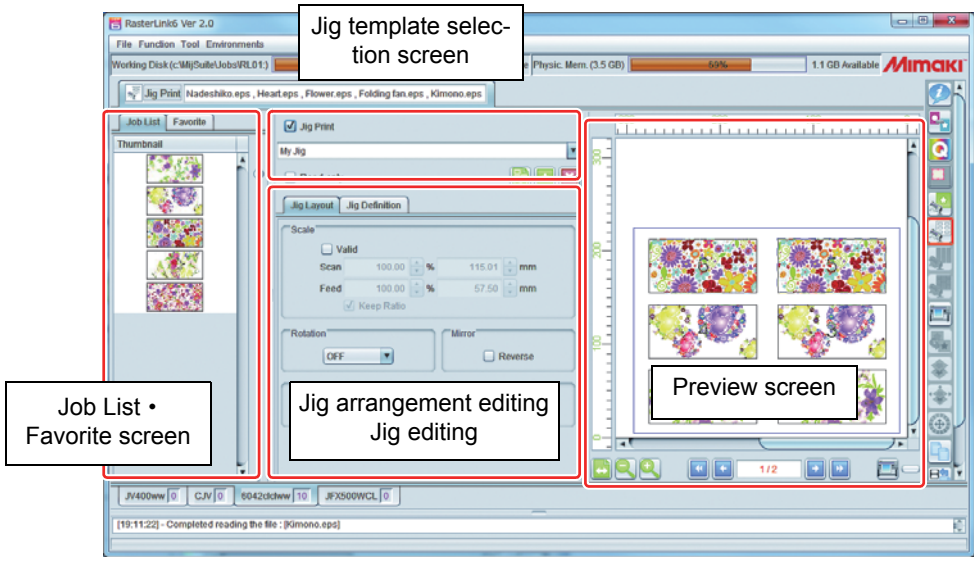
Depending on job printing condition setting difference, some combinations are not available for jig arrangement.

Setting condition	Jig arrangement
Composition	OK
Arrrangement	OK
Specify number of copies with general print	OK
Crop	OK
Tiling	NG
Step & Repeat	NG

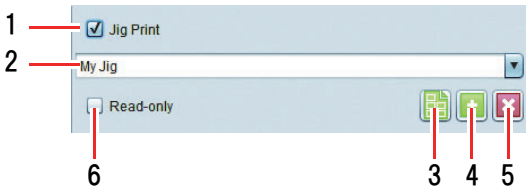
OK : Jig arrangement is possible.
NG : Jig arrangement is impossible.

Screen configuration

Rough configuration



Selecting/ creating jig template



1. Jig Print

For specifying whether or not to print the jig print.

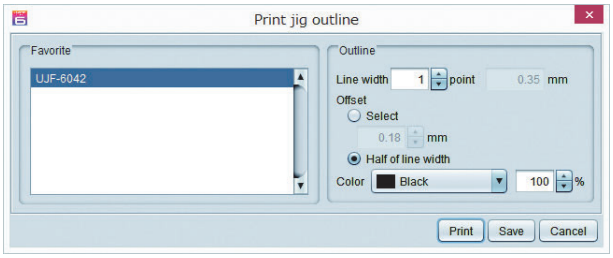
2. Jig template name

Select the jig template.
When you create a template newly, enter new name here and press (adding jig template).

Important! • You cannot edit/ delete the “entire drawing area” template.

3. Print jig outline

Print the outline of the jig set in the jig template.
When you press this button, the [Print jig outline] dialog is displayed.



Favorite : Select the favorite setting that will become the default at printing outline.

Line width : Specify the line width of the outline.

Offset : Specify offset of the line to be drawn actually against the jig rectangle.
(hereinafter referred to as red frame: rectangle, black line: outline to be printed)

Offset setting	Offset value	Result
Specified	0	Draws the outline with the jig rectangle being the center of the line.
Half of line width	No setting	Draws the outline with the inner perimeter of the jig rectangle contacting outside the line.
Specified	+	Draws the outline outside the jig rectangle.

Color : Sets the outline color.

When you press the [Print] button, the outline job is printed.
Clicking the [Save] button will create a PDF file of the outline.

4. Adding a jig template

When you enter new name in [Jig template name] and press this button, new jig template with the current setting as the default is added.
When you select the existing name and press this button, it is overwritten with the current setting.

5. Deleting a jig template

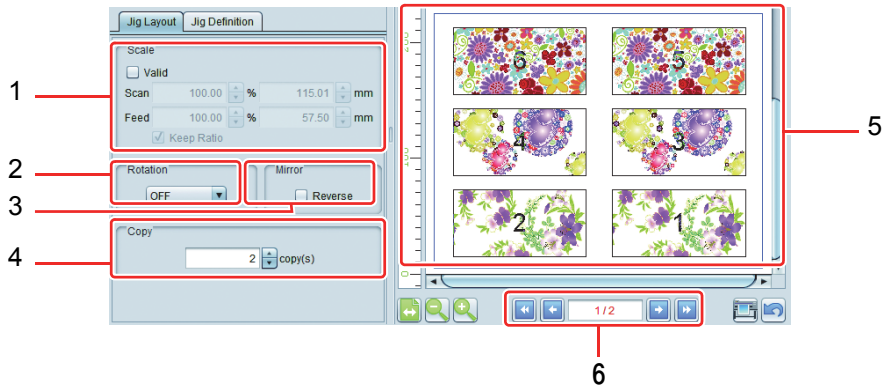
Deletes the jig template selected in [Jig template name].

6. Read only

Turning this on makes the jig template you have selected into a read-only file. Specify this if you want to prevent the jig template from being changed or deleted.

Jig arrangement editing tab and arrangement preview

In the jig arrangement editing tab, perform image editing against the job selected on the thumbnail or the arrangement preview. You can display the preview at actual print by board on the arrangement preview.



1. Scale

This is for specifying the print size for images you have selected via thumbnails or preview. You can specify it as a zoom factor (%) or actual-dimension size.

- Turning [Keep Ratio] on will retain the original image's aspect ratio when enlargement/reduction is executed.

2. Rotation

Rotates the image selected in the thumbnail or the preview.

3. Mirror

Makes the mirror image of the image selected in the thumbnail or the preview.

4. Copy

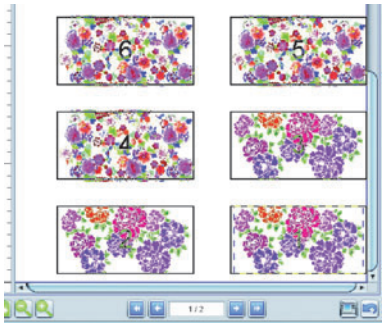
Specifies number of copies of the image selected in the thumbnail or the preview.

5. Arrangement preview

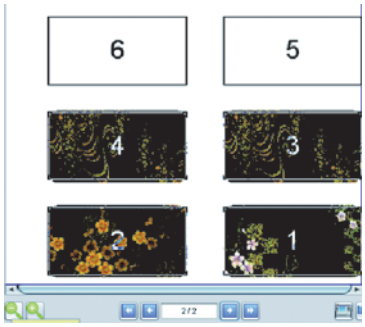
Previews the status with the image arranged in the jig template.

6. Changing board

If the total images to be printed will not fit into one board, another board or boards using the same jig template will be created, and the images placed in it/them, automatically. Click to toggle between the boards.



First board (1/2)



Next board (2/2)

Jig Layout

[Jig]

1.Size

For specifying the overall size of the jig.

2.Position

For specifying the distance from the print origin to the jig's bottom right.

3.Deskew

For tilting the jig as a whole in the range −45 to +45 degrees, about the jig's bottom right as pivot point. When the jig is tilted, the objects on it will tilt and their positions will be relatively displaced. Specify this correction if the jig was installed in a tilted state relative to the table.

Important!

- When the jig is tilted, a certain amount of jaggies will occur in the print images' outlines and linear portions. With raster data in particular, the jaggies will be salient if the rasterization resolution is low. If you are going to tilt raster data, you are recommended to create the data with a resolution that is close to the printing resolution.

[Material]

For defining information about the objects placed on the jig. In the preview, selected object definitions are displayed with a red rectangle, and unselected object definitions with a black rectangle.

4.Size

For specifying the size of single materials.
Settable sizes range from 25.4 mm to the printer's valid print size.

5.Counts

For specifying the quantity of materials placed in the widthwise and heightwise directions.
The maximum settable quantity for each direction (widthwise and heightwise) is 99, making a maximum settable total of 99 × 99 = 9801.

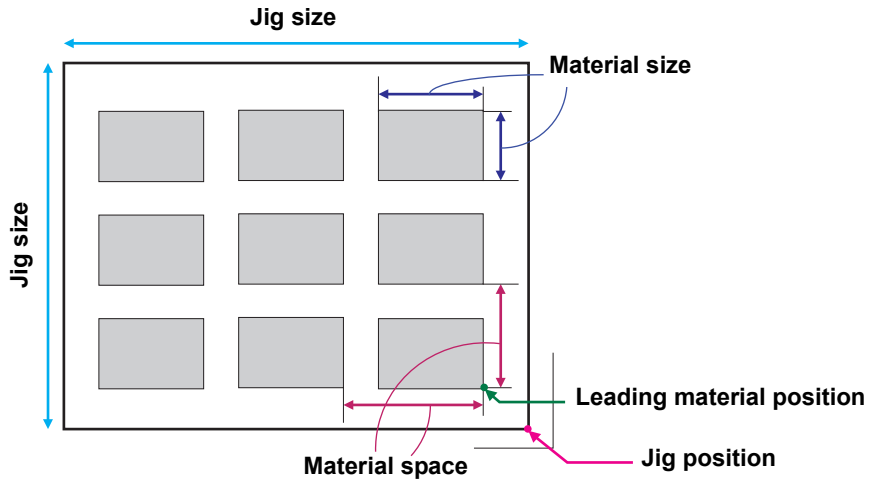
6.Interval(Pitch)

Width : For specifying the distance from the right end of the neighbor material on the right.

Height : For specifying the distance from the bottom end of the neighbor material below.

7. First position

For specifying the distance from the jig's bottom right to material 1's bottom right.

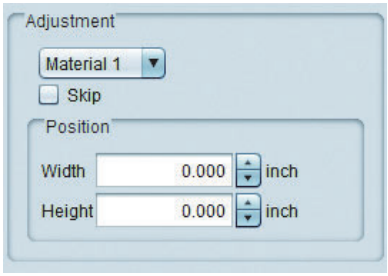


8. Layout

For specifying, via 9 directions, which position on the material is to be the reference for placing the images.

[Adjustment]

Set whether to use the material position you have specified, and carry out fine adjustment of the print position.



9. Material Combo box

For selecting materials to be adjusted. They can also be selected via template preview, using the mouse.

10. Skip

If you put a check mark in this box, no image will be placed at the position of the object in question. This is also indicated, by an "×", in template preview and placement preview. Put a check mark here if you do not want to place an image at the position of a particular object because it is dirty or damaged, etc.

11. Position

Perform fine adjustment of the material position arranged at equal spaces.

Favorite

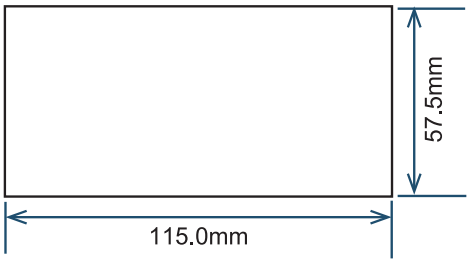
You can register/ use the conditions below as Favorites in the [Jig Print] screen.

- Jlg name
- Scale
- Rotation
- Mirror

For the setting method and the application method, refer to P.129

Procedure for printing using a jig

The procedure is set forth below, using printing onto a material of the dimensions in the figure below as an example.

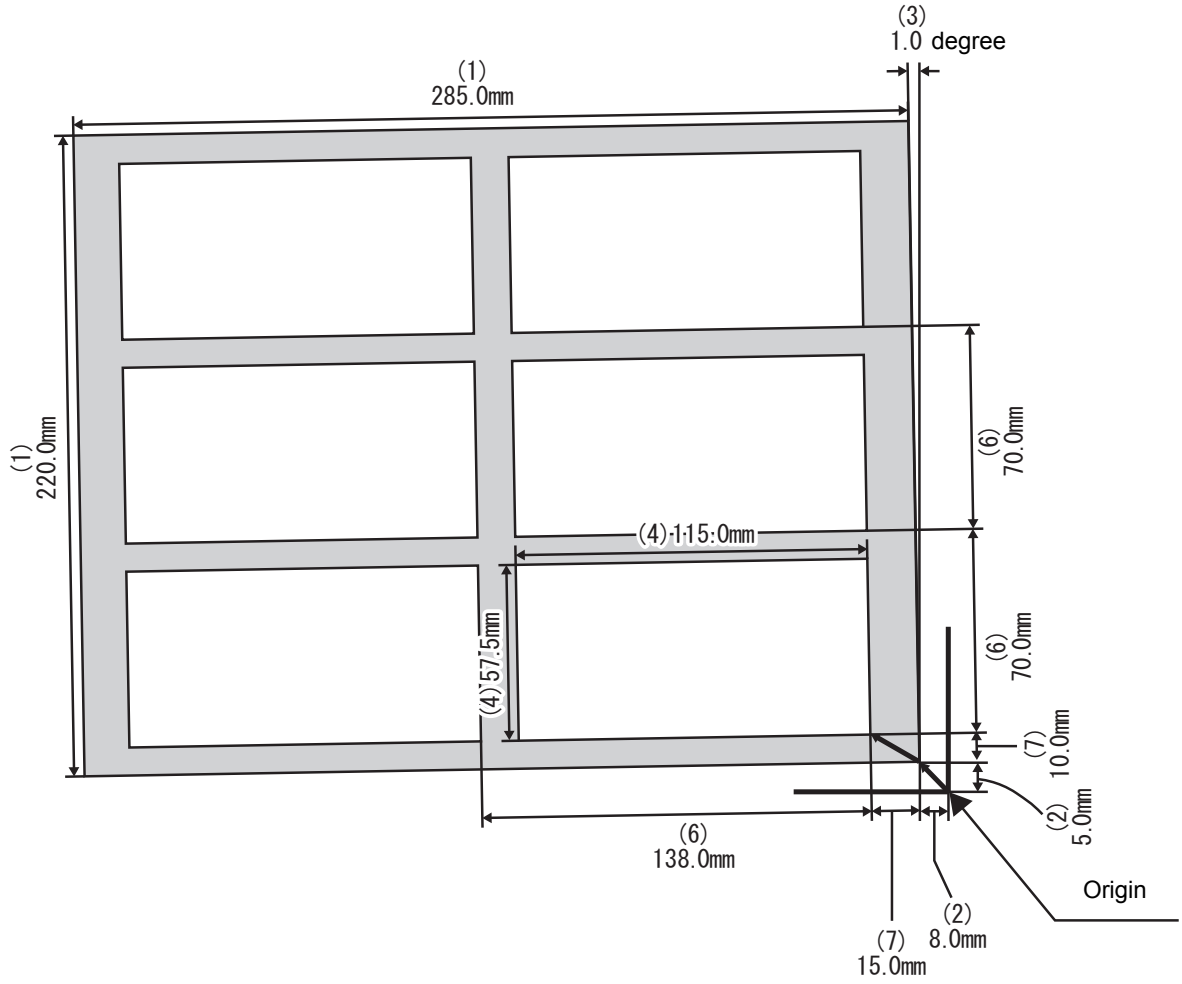


1. Initial registration of the jig template

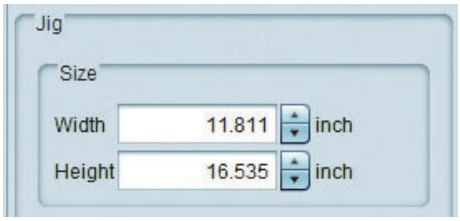
(1) Select the job to be printed, then click the jig print icon to open the jig print screen.
(2) Enter an appropriate name for the jig template (“My Jig” in the illustration below) and click the [+] button. The display will automatically switch to the jig definition tab.

2. Setting the jig template

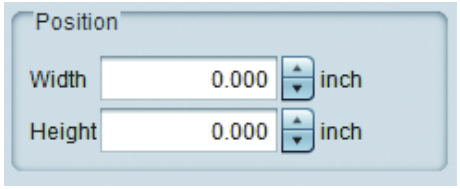
Enter the size of the jig installed to the printer. In this example, the jig installed to the printer has the dimensions in the following figure. The numbers in the figure correspond to the step numbers in the size-entering procedure below.



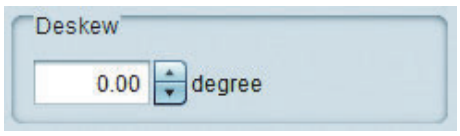
(1) Enter the jig's overall size.



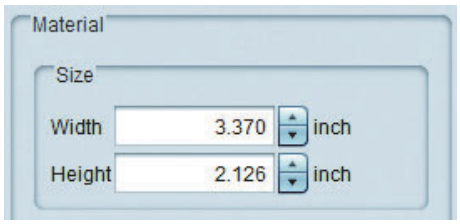
(2) Enter the distance from the print origin to the jig's bottom right.



(3) Enter the jig's tilt angle relative to the table. Use a positive value for a counterclockwise angle, a negative value for a clockwise one.

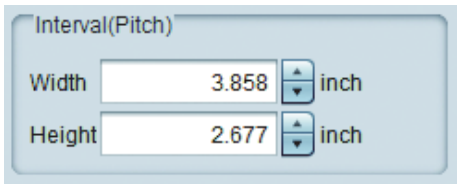


(4) Enter the material's size.

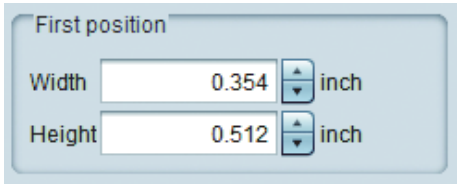


(5) Enter the quantity of the materials placed, in the widthwise direction and in the heightwise direction.

(6) Enter the spacings for arranging the materials in rows.



(7) Enter the distance from the jig's bottom right to the first material's bottom right.

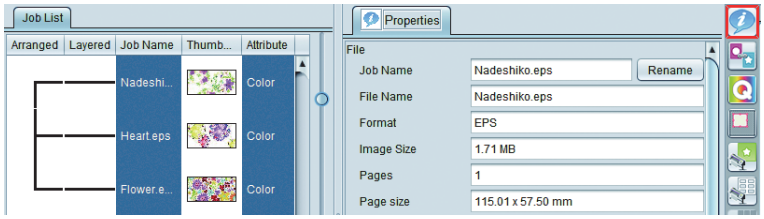


(8) If the material size and image size are incongruous, select a placement policy.

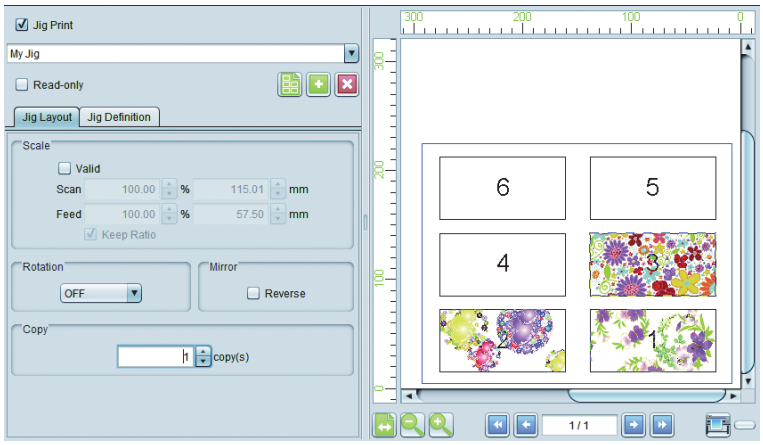
3. Arrange the image in the jig.

(1) Press the property icon of the job to display the Job list.
(2) Select the job to print and open the Jig Print screen.
Here, select the three imposed jobs as an example.

- If you select multiple jobs that have not been arranged, you cannot select jig printing.
- Also, depending on the conditions, there are some settings that do not allow jig printing. refer to "Conditions for Jig Print(P.62)".



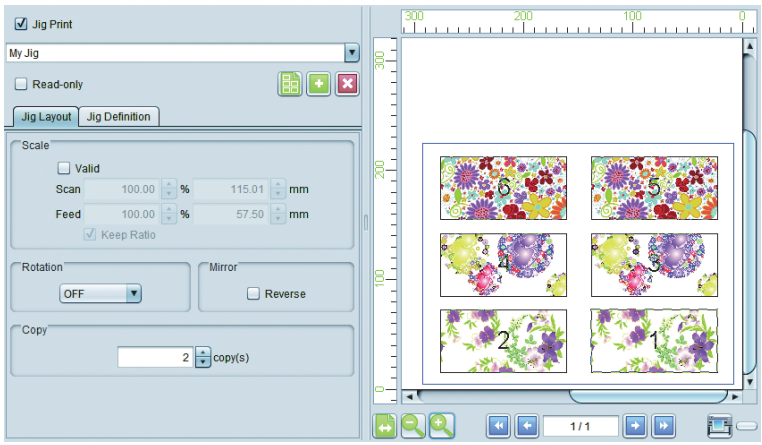
(3) Select the created jig template (My Jig).
The images are arranged in the arrangement preview one by one.



Important!

- RasterLink arranges the images from the top image of the job list. If the printing order is important, be careful about the order to read images into RasterLink. (The top image of the job list is the one read into first. You cannot change the order of the list after reading images.)

(4) When you print each image several times, select the image in the [Arrangement preview] and specify the number of copies in [Copy].
Here, specify to print two of each image.



4. Print.

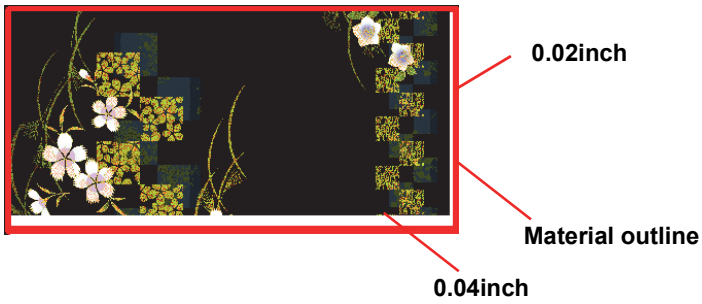
Press the printing button under the arrangement preview to print.

At times like this

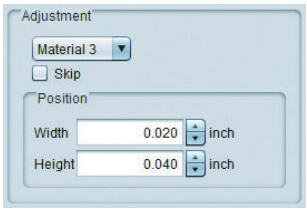
The printed position is misaligned

If the printed position is misaligned with the jig template arrangement set first time, adjust the position for each material in the [Adjustment] tab of the jig editing tab.
This chapter explains how to set if the third material's position in the example of the previous chapter "Printing procedures using jig" is misaligned.

(1) Measure how much the printed result is misaligned against the third material.



(2) Open the Jig Print screen.
(3) Open the [Jig Layout] tab.
(4) Set [Material 3] in the material number in the [Adjustment] column and enter as below.



(5) Again print them and check that there is no misalignment.

If there is any material being printed abnormally, reprint that image only

You cannot specify the image to print directly in the jig printing screen. Specify to print that image only in the procedures below:

● When the job is only one and you specify to copy

Set the failed number of copies in the number of copies and perform jig printing.

● When you imposed images

Cancel imposition once and impose only the failed ones again and perform jig printing.

Conditions for Jig Print

Editing conditions that do not allow jig print

Jig print will not be possible when the following settings have been made for a job:
- Tiling
- Step & Repeat

When printing multiple images:

Make the arrangement settings before selecting the job group and opening the jig print screen.

Print a large image by splitting it - Tiling

Usage of split print

When you output an image larger than the printer width such as a sign, by using the split print function, you can print by splitting the image into the size to construct easier.

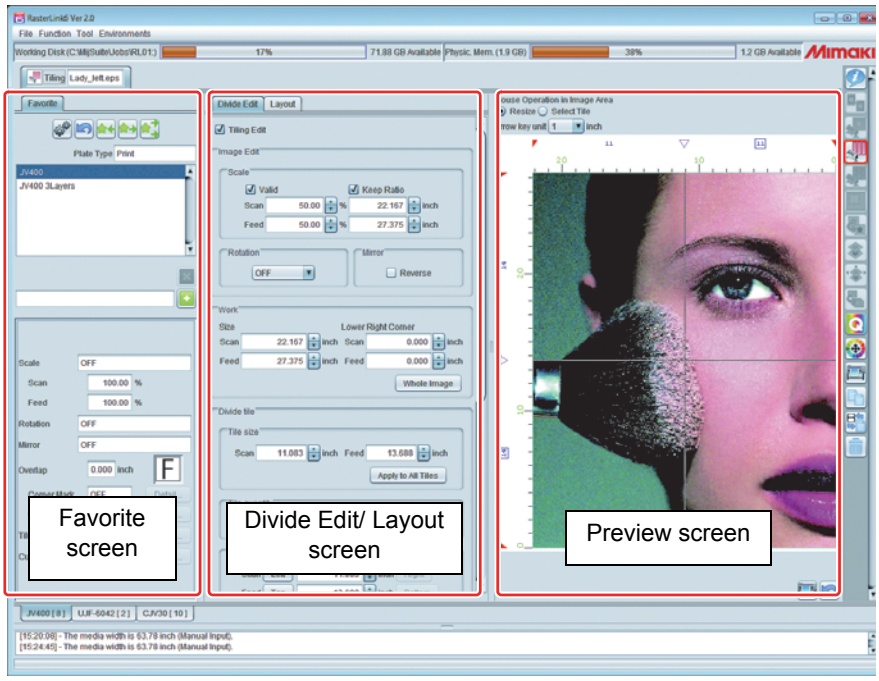
Function

You can perform the operations below in [Tiling].

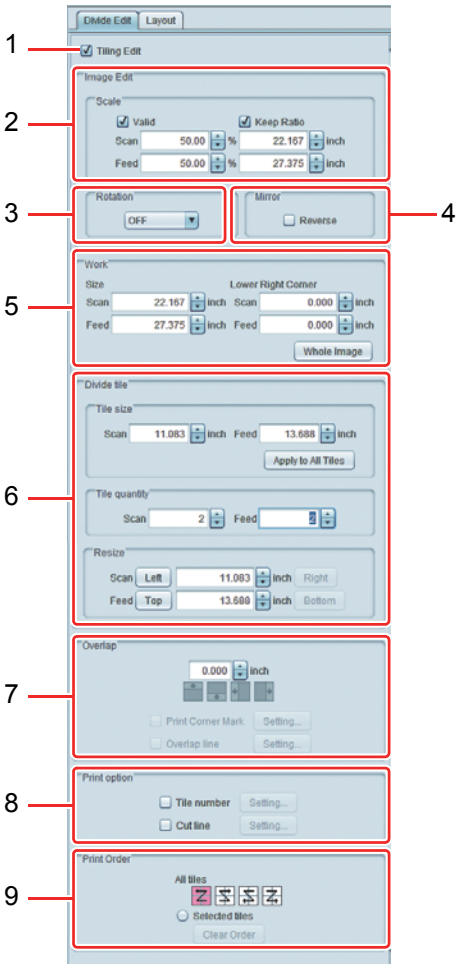
- Enlargement/ shrinkage, rotation and mirror of image
- Setting split image
- Layout setting of split image
- Option setting to construct easier on sign etc.
- Performing print

Screen configuration

Rough configuration



Divide Edit



1. Tiling Edit

When this is ON, sprit print is specified and you can edit.

2. Scale

Enlarges/ shrinks the image.

3. Rotation

Rotates the image.

4. Mirror

Makes the mirror image of the image.

5. Work

Specifies the size and the position to clip the image.

- In RasterLink, the target to construct such as a sign is called [Work]. Usually, RasterLink enlarges the image into a little larger than the work and clips the required part in this [Work] function.

6. Divide tile

Splits the image. You can split up to 100.

- In RasterLink, one split image is called [Tile].

There are three types of the splitting.

A.Tile size

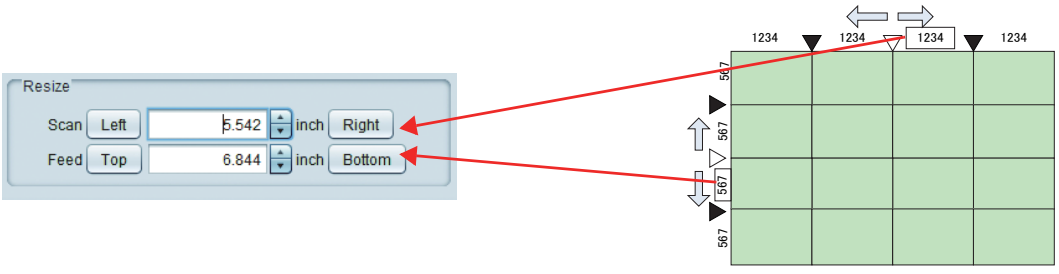
Sets the size of one tile and applies it to all tiles.

B.Tile quantity

Sets the number of splits each for the scan and the feed and performs equal split.

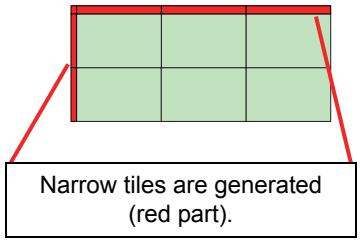
C.Resize

Select the tile to specify the size by using [Left], [Right], [Top], [Bottom] button and specify the size. The size of the target tile to edit is displayed with rectangle on the Preview screen as below. When you click the mouse on the ▼ mark, it changes to the selected status (▽). In this status, you can perform fine adjustment with the cursor key.

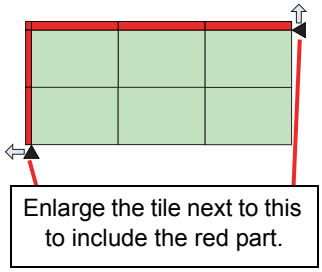


Important!

- Make the size of one tile be larger than 25.4mm square. If it is less than this, a warning message is displayed at printing or at changing screens and you cannot continue the process.
- Especially, when the splitting method is [Tile size], a tile of 25.4mm and less may be created at the left edge or the upper edge of the image due to calculation difference. In such a case, enlarge the size of the tile next to this in [Resize].



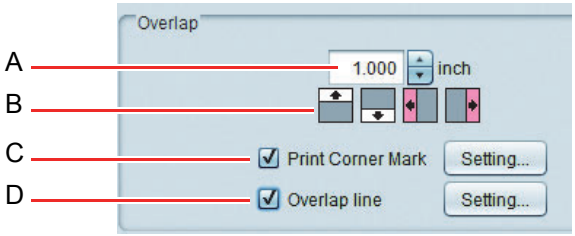
Narrow tiles are generated (red part).



Enlarge the tile next to this to include the red part.

7. Overlap

When you construct on a sign, if you paste the split images as it is, gaps may be generated. To prevent this, you can put overlap space on neighboring parts of tiles.

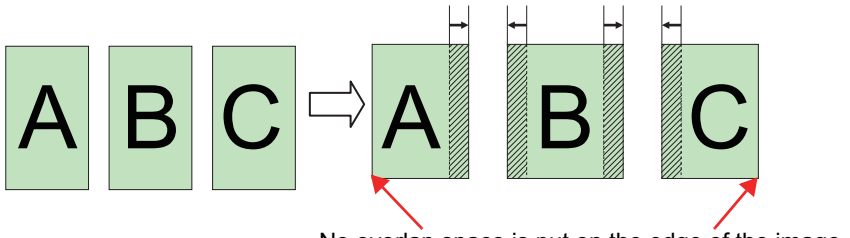


A.Size specification

Specify the length of overlap space.

B.Overlap space position

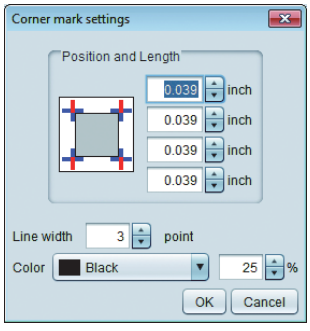
Specify the position to put overlap space. When you split the image into three vertically and set to put overlap space on the right and the left of the tile, the way to put overlap space is as below (the shaded area is overlap space):



No overlap space is put on the edge of the image.
It is put when there is a tile next to this.

C. Print Corner Mark

When this is ON, the mark (+) used for reference to paste is printed. When you press the [Setting...] button, the dialog below is displayed.



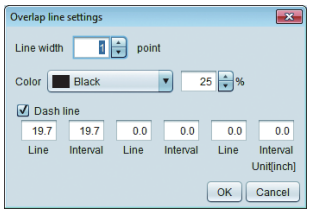
Position and length : Specify the length of four sides of the mark. (Range: 0 to 100mm)

Line width : Specify the mark line width. (Range: 0 to 30point)

Color : Specify the color and the density of the mark.
When you press the [OK] button, the setting is applied.

D. Overlap line

When this is ON, a line (split line) is printed on the borderline between the tile itself and overlap space. When you press the [Setting] button, the dialog below is displayed.



Line width : Specify the line width.

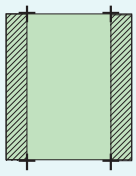
Color : Specify the line color.

Dash line : When you draw a dashed line, make this ON.

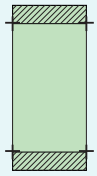
Dashed line shape : When you draw a dashed line, specify the line type and intervals.

- The corner mark and the split line are printed on overlap space.

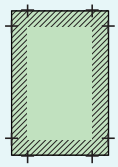
Corner mark



When overlap space is put on the right and the left

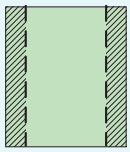


When overlap space is put on the top and the bottom



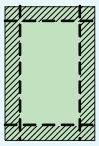
When overlap space is put on four directions

Overlap line



When overlap space is put on the right and the left

When overlap space is put on the top and the bottom

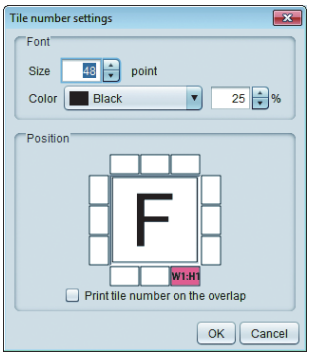


When overlap space is put on four directions

8. Option

Tile number

When this is ON, the tile number is printed so that you can see at which position of the original image the tile is [Setting]
When you press the button, the dialog below is displayed.



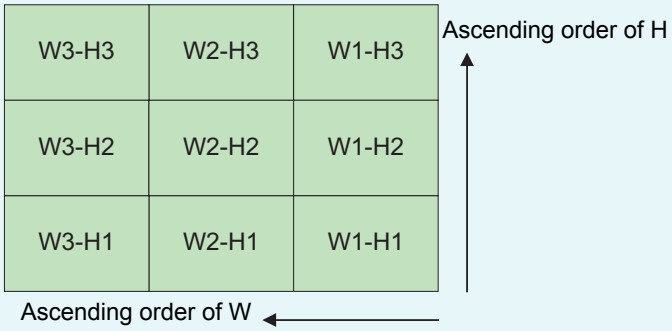
Font size : Set the font size of the tile number.

Color : Set the color of the tile number.

Position : Select at which position of the tile to print the tile number.

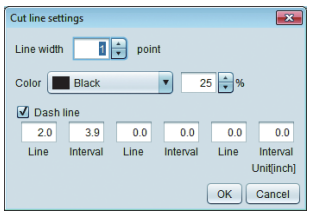
Pirnt tile number on the overlap :
When you set to put overlap space and when this is ON, the tile number is printed on overlap space.

- The tile number is displayed as W for the scan direction and H for the feed direction, and (1, 1) for the lowest right tile (printing origin).



Cut line

When this is ON, a line is printed on the outer of the tile. If there are spaces in the tile etc., you can use this for reference to cut.
When you press the [Setting] button, the dialog below is displayed.



Line width : Specify the line width.

Color : Specify the line color.

Dash line : When you draw a dashed line, make this ON.

Dashed line shape : When you draw a dashed line, specify the line type and intervals.
You cannot set [0] to all dash lines and interval.

- The cut line is printed on the outer of the tile including overlap space.

9. Print Order

Select the printing order and the tile to print.

When you print all tiles at a time

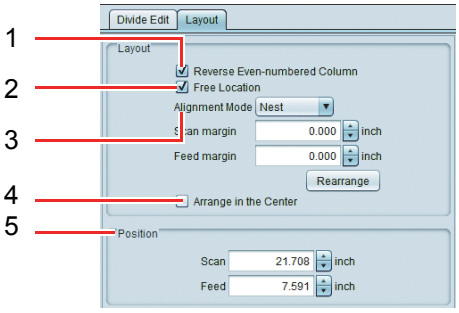
Click the icon to indicate the printing order.

Icon				
Printing 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

Output the specified tile only in any order

Select [Selected tiles]. For the tile order specification/ selecting method after that, refer to [To print the specified tile only.] (☞P.70).

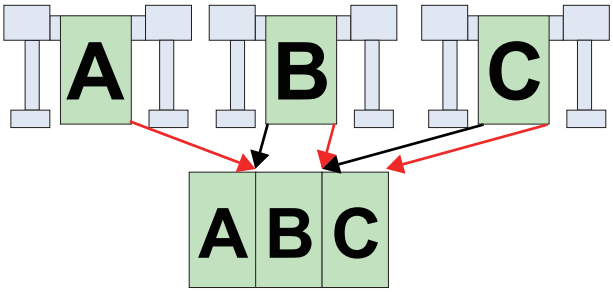
Layout



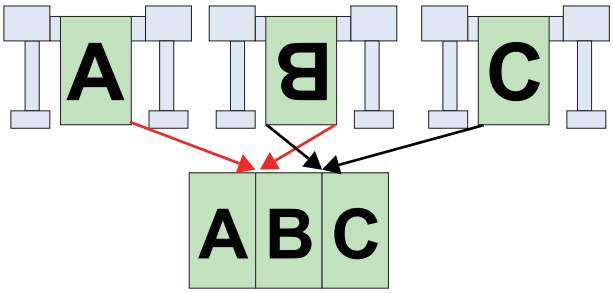
1. Reverse Even-numbered Column

Rotates the even number sequence counted from the right of the tiles 180 degrees.
This is effective when there is color difference due to the heater temperature difference between the right and the left of the printer and when you paste tiles, the pasted part may stick out.

•**OFF**: Prints all tiles with the same direction.



•**ON**: Prints the even number sequence (here, Tile B) by rotating it 180 degrees.



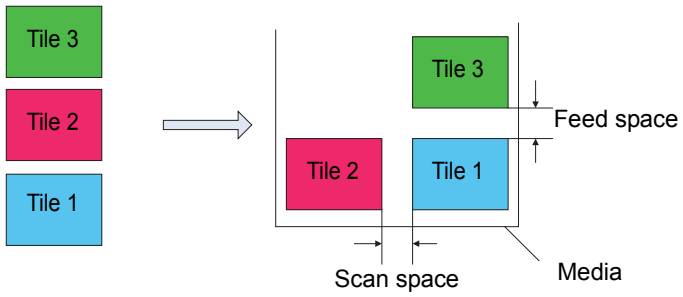
2. Free Location

When this is ON, you can move the tile to any position.

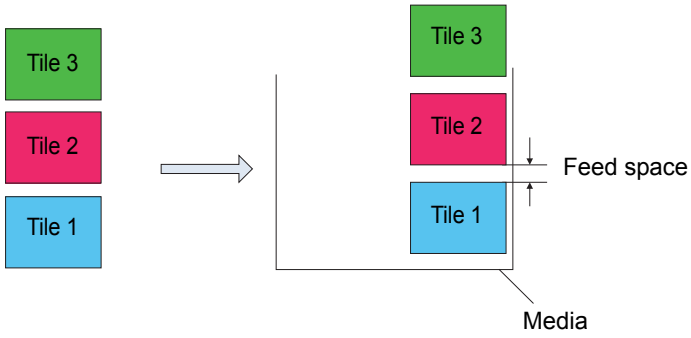
3. Alignment Mode

This can be operated when [Arrange in any position] is ON.
By putting space between tiles by the width specified in [Scan margin][Feed margin] and pressing the [Rearrange] button, arranges them as below.

- Nest
  Arranges tiles in the media width direction side by side.



- Sequential
  Arranges tiles in the media feed direction side by side.



4. Arrange in the Center

When it is ON, the entire range of multiple tiles is moved to the center of the media as indicated in P.37 .

5. Position

Moves the tile selected by clicking on the layout preview using the numerical value.

Favorite

You can register/ use the conditions below as Favorites in the [Tiling] screen.

- Scale
- Rotation
- Mirror
- Size and position of overlap space
- With/ without corner mark and its setting
- With/ without split line and its setting
- With/ without tile number and its setting
- With/ without cut line and its setting

At times like this

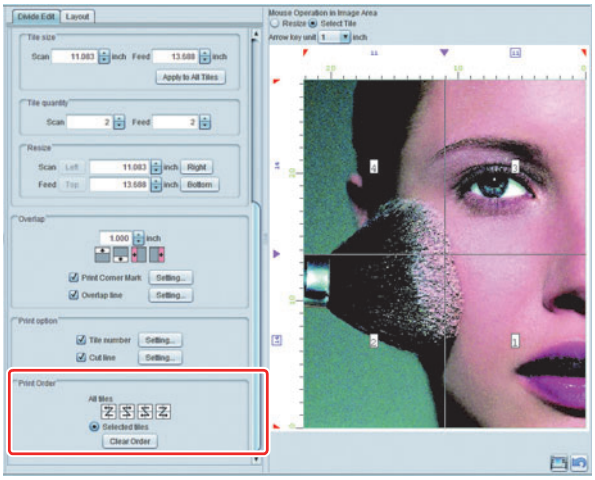
To print the specified tile only

When you reprint the specified tile because the work has failed etc., you can print it with the procedures below:

1 Select the target job and open the split print screen.

2 Select [Selected tiles] in the [Print Order] column.

- The number indicating the printing order is displayed on each tile on the split preview.

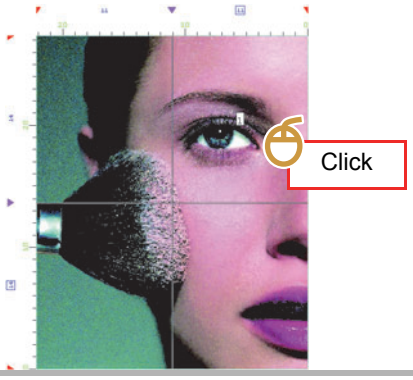


3 Press the [Clear Order] button.

- The number displayed on each tile on the split preview is cleared.

4 Click the tile to print on the split preview.

- The number indicating the printing order is displayed on the clicked tile.
- You can select multiple tiles. The printing order is displayed in the clicked order.



5 Print it.

Conditions of tiling

Conditions unavailable for tiling

You cannot perform tiling for the job with the setting below:

- Imposed
- Step & repeat
- Composed
- When you set the number of copies for normal printing etc.
- Print & Cut
- When you set the register mark for normal printing etc.

Print images side by side without any spaces between them - Step & Repeat

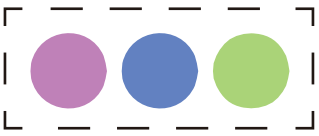
Function

You can perform the operations below in [Step & Repeat].

- Enlargement/ shrinkage, rotation and mirror of image
- Specifying way of lying/ output width/ length of image

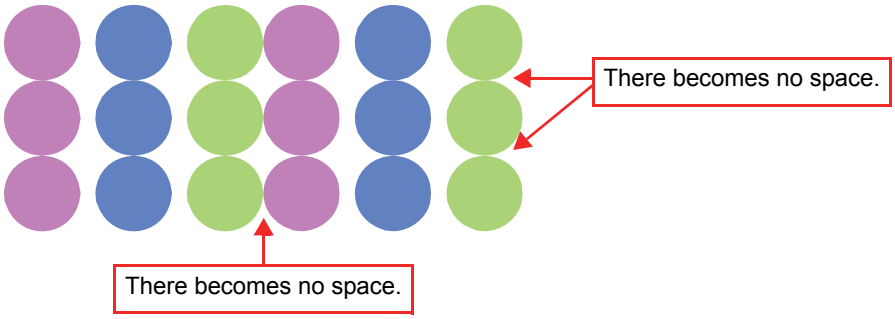
Important!

- To lay images without any spaces between them, this function removes spaces of four directions. (Even if spaces are put in four directions in terms of design, they are removed.)



(The dotted line indicates the image borderline.)

Step & repeat with images lined up in rows, 2 horizontally and 3 vertically



- However, on the preview screen, the images will be displayed without the gaps removed.

Screen configuration

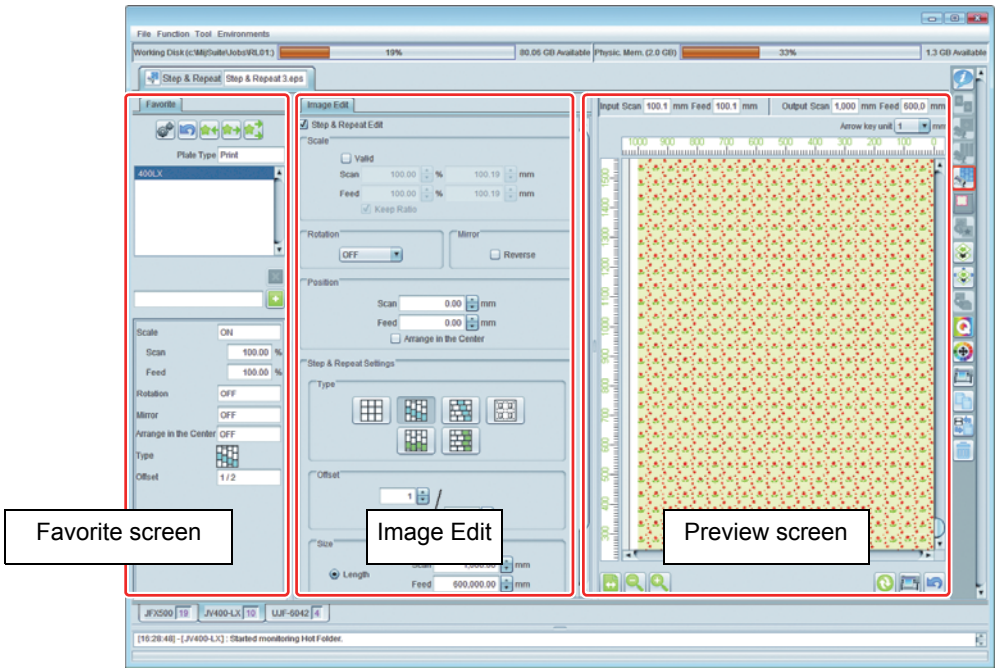
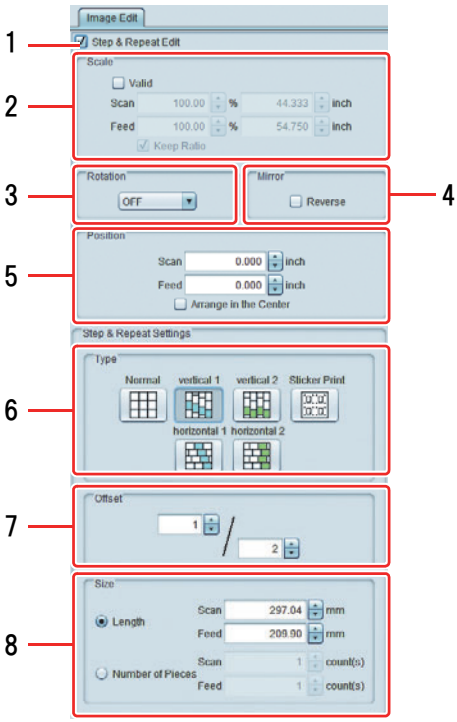
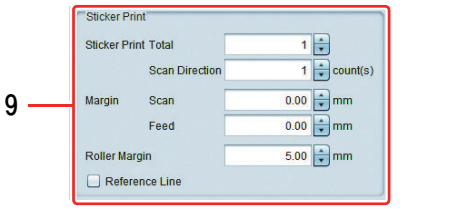


Image Edit





1. Step & Repeat Edit

Performs Step & Repeat.

2. Scale

Enlarges/ shrinks the original image.

3. Rotation

Rotates the original image.

4. Mirror

Makes the mirror image of the original image.

5. Position

Moves the image arranged in Step & Repeat.

- When [Arrange in the Center] is ON, arranges entire Step & Repeat arranged image at the center of the media.

6. Type

Specifies the way of lying images.

Normal : The images are lined up without staggering.

vertical 1 : The images are lined up staggered in the vertical direction. The stagger amount increases by an offset in each column.

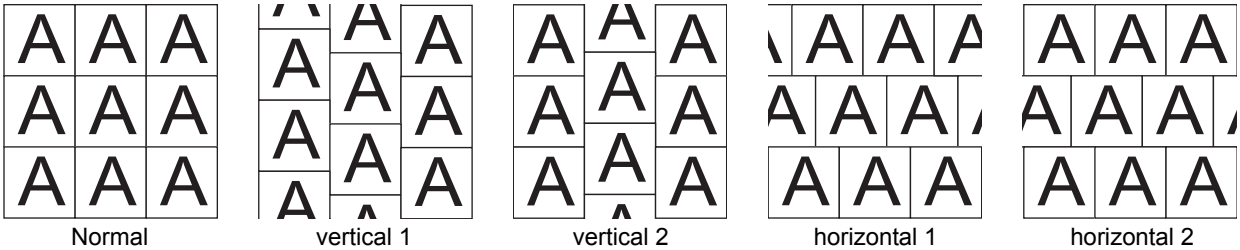
vertical 2 : The images are lined up staggered in the vertical direction. The even columns only are staggered by an offset.

horizontal 1: The images are lined up staggered in the horizontal direction. The stagger amount increases by an offset in each row.

horizontal 2 : The images are lined up staggered in the horizontal direction. The even rows only are staggered by an offset.

Sitcker Print (displayed with Roll to Roll printer):
The images can be lined up with any desired spacings (refer to next page for details)

Example: The various types of placement with offset of 1/3



Normal vertical 1 vertical 2 horizontal 1 horizontal 2

* refer to next page regarding Sitcker Print.

7. Offset

This is displayed when the images are to be lined up staggered. It is for specifying the stagger amount.

8. Size

Specifies the repeating size.

Length : Specifies printing length/ width. Maximum length : 600m
Number of Poeces : Specifies with the number of images assuming the original image is one. Maximum range: Length 600 m/image size multiplied by scaling

9. Sticker Print

This is displayed when " Sticker Print " is selected for [Type].

Sticker Print **Total** : For specifying the quantity of images.
Scan Direction : For specifying the quantity of images lined up in the widthwise direction and feeding direction.

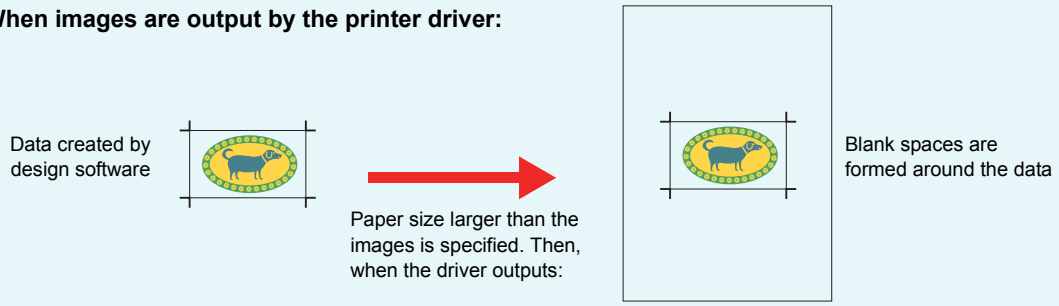
Margin : For specifying the inter-image spacings in the width direction and feed-direction.

Roller Margin : For setting the value for the paper right-edge margin. If the paper is to be cut subsequently, see the Instruction Manual for the cutting plotter used regarding this margin value.

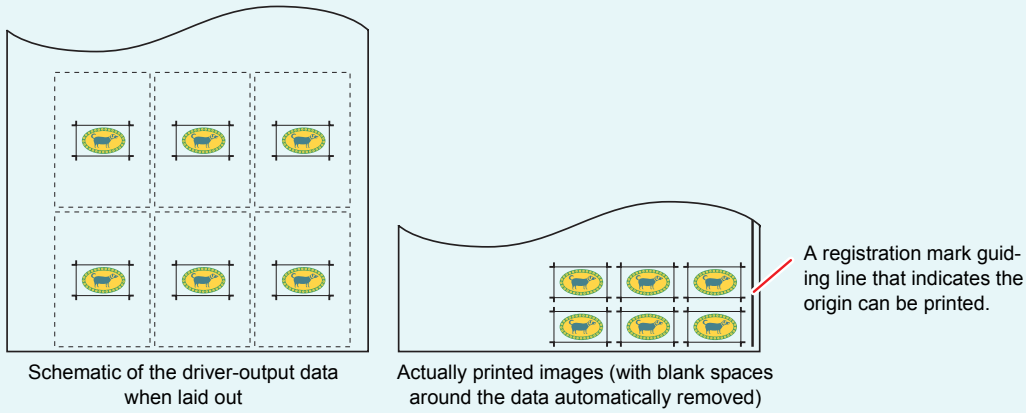
Reference Line : For printing a line that will serve as origin when the printed sheet is cut with the cutting plotter.

- Use this when you copy-print images that are to be cut.
Using the printer driver to read images into RasterLink may result in blank spaces being formed around the images. This is particularly likely to occur if print paper larger than the images is set in the printer driver settings. If spacings are set for the copying with the images in such a state, the pacings will be added to the blank portions around the images, and so the spacings will appear larger than specified in the printed copies.
This function avoids this problem by first removing the blank spaces at the outside of the images, so that copying is carried out with the specified spacings inserted between the images.
Also, when images are to be cut with a cutting plotter, you must specify whether the cutting plotter is to read the left or right registration marks initially. The registration mark guiding line indicates which registration marks – left or right – the cutting plotter should be instructed to read.

When images are output by the printer driver:



Difference between the output images on the preview screen and the actually printed images



Schematic of the driver-output data when laid out

Actually printed images (with blank spaces around the data automatically removed)

Favorite

You can register/ use the conditions below as Favorites in the [Step & Reoeat] screen.

- Scale
- Rotation
- Mirror
- Arrange in the Center
- Type
- Offset value
- Reference Line

Conditions that do not allow step & repeat

Step & Repeat cannot be set for jobs for which the following settings have been made.

- Auto Special Color Composition job
  (The job combining the Color layer job and Special Color layer job which is automatically created with [Composite automatically] in Composition function.
- Arrangement
- Tiling
- Number of copies 2 or higher with “General Print” or the like
- Print & Cut
- Mark specified with “General Print”.
- Label printing with “General Print”.
- Multipage jobs

Clip some parts of the image - Crop

Function

You can perform the operation below in [Crop].

- Clip some parts of the image.

Screen configuration

Rough configuration

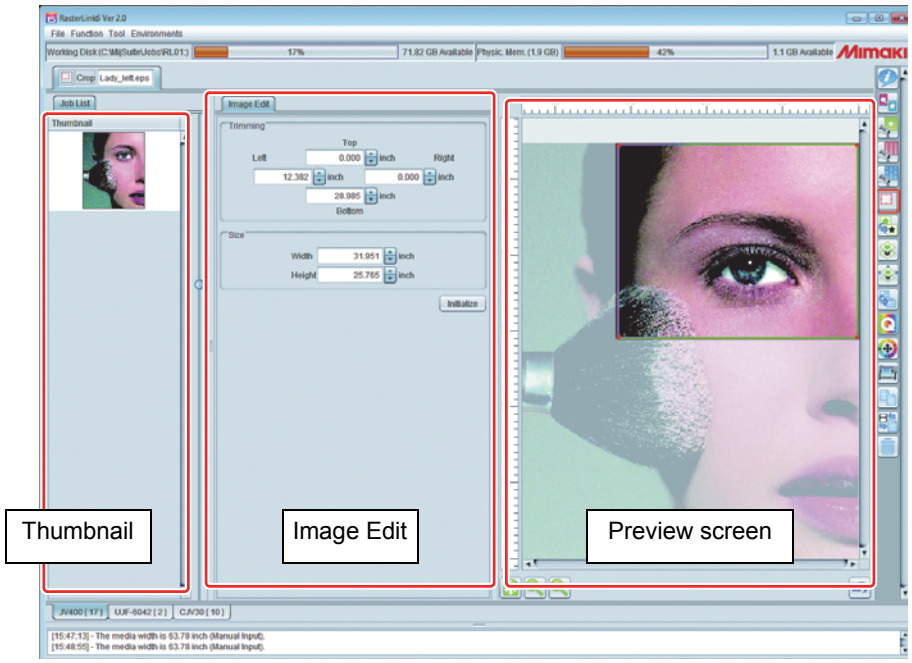
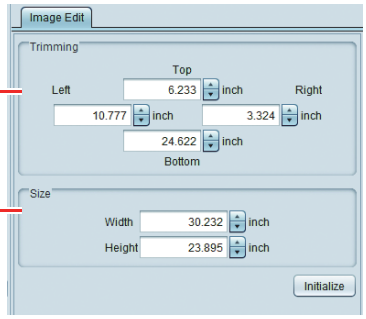


Image Edit



1. Triming

Specifies the rectangle area to be clipped by the distance from left, right, top and bottom of the image.

2. Size

Specifies the size of the rectangle to be clipped.

Important!

- Specify trimming and size based on the original size of the image. If you specify larger one in the general printing etc., the image after being clipped will be enlarged.

3. Initialize

Returns the setting to the one to print entire image.

Clip preview

By dragging & dropping the green line with the mouse on the preview, you can specify the area to clip.

Thumbnail

When you selected several images in the job list and moved to the [Clip] screen, the list of selected jobs is displayed in the thumbnail. After selecting the image you set to clip, perform setting. Perform setting for each job. (You cannot set collectively.)

Create an image for special color ink
- Special plate

Function

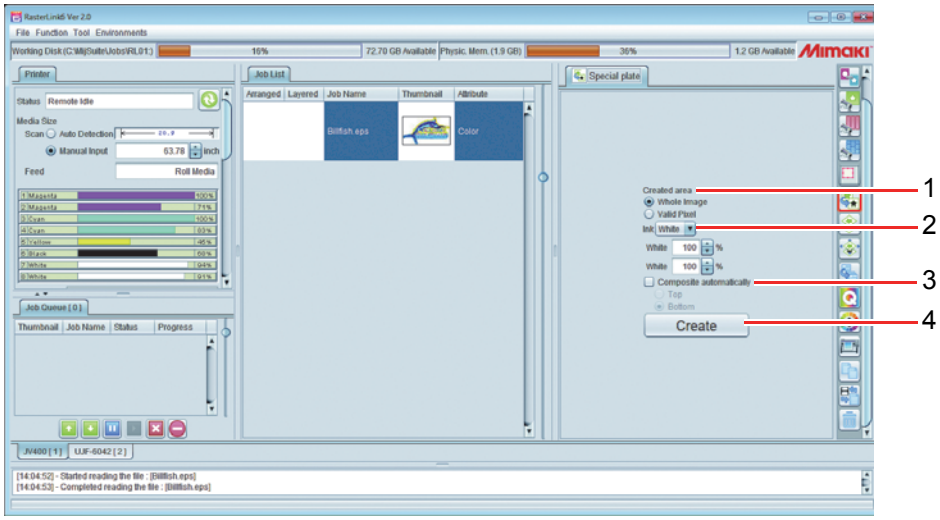
You can perform the operations below in [Special plate].

- Create the image to print with special color ink (white, clear coat, etc.) from the color image.
- Specify the printing order (overprint order) of the created image.

Important!

- This function is available only when you set special color ink set.
- The created job is called [Special color plate] job.
- The special color plate created in creating plate does not have color density information of the original image. It is all one color and the ink density is the one specified at creation or in the job attribute of the job property (P.32). When you want to change the density by using gradation in one image etc., create an image for special color and perform [Single color replacement] (P.31) by yourself.

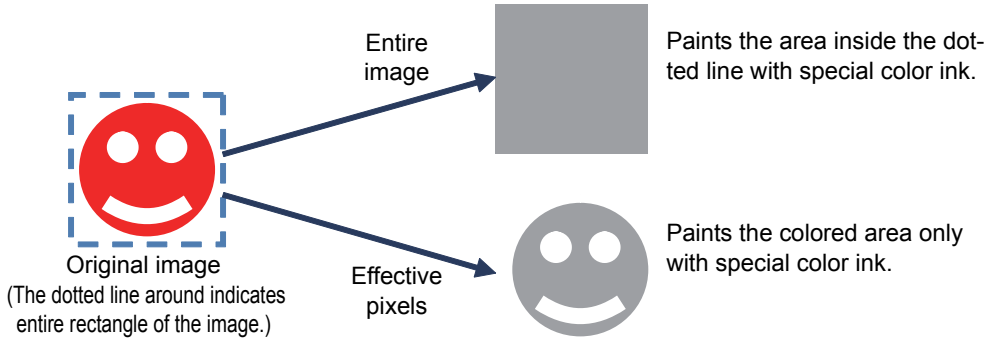
Screen configuration



1. Create area

Set on which part you print special color of the original image.

- **Whole Image**
  Prints special color on entire rectangle of the original image.
- **Valid Pixel**
  Prints special color only on the printed part of the original image.



- When you want to paint inside the figure with special color as below,

Create data for special color with design software and perform single color replacement (P.31).

- When you use Illustrator or CorelDRAW as design software, you can create data for special color like above easily by using RasterLinkTools. For details, refer to P.166.

2. Ink

Specify special color ink to use and its density.

Important!

- Only one type special color ink can be set for the created special color plate.

3. composite automatically

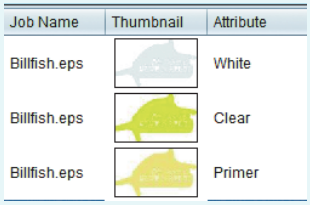
After creating the special color plate job, set whether you perform composite automatically (P.86).
Specify whether you put the special color plate [On] or [Under] the original image.

- When you create multiple plates for special color from the original image (e.g. creating special color plate for white and for clear from one color image), as you cannot create plate from the composed job, do not compose here but compose on the [Composite] screen (P.86).

4. Create

After setting 1 to 3 above, when you press this button, the job for special color plate is created and it is added to the job list.

- Depending on ink specified for special color plate, the color of the created job preview image is as below:



Ink	Preview color
White	Gray
Primer	Cream color
Clear (*)	Mustard yellow

(*) Depending on the illuminance setting, the preview color is changed. (P.33)

Job whose plate cannot be created

If you select the job with the conditions below, you cannot create a plate.

- Imposed
- Composed
- Tiling or step & repeat is set.

When you want to create plate for the job above, once cancel the above setting and then create.

Make one image by overlapping images - Composition

Function

You can perform the operation below in the [Composition] screen.

- Specify to print multiple jobs by overlapping them.
  There are several ways to overlap. They are explained in the next chapter.

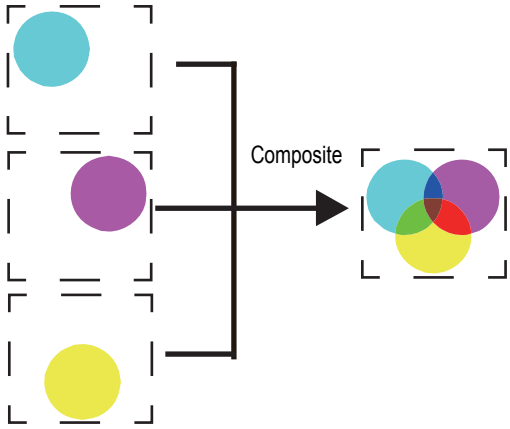
About way to overlap jobs at composite

The way to overlap jobs at composite differs depending on the printer type and the job attribute.

For Roll to Roll printer

Composite of color jobs

Creates printing data by overlapping all image data and prints them at the same time.

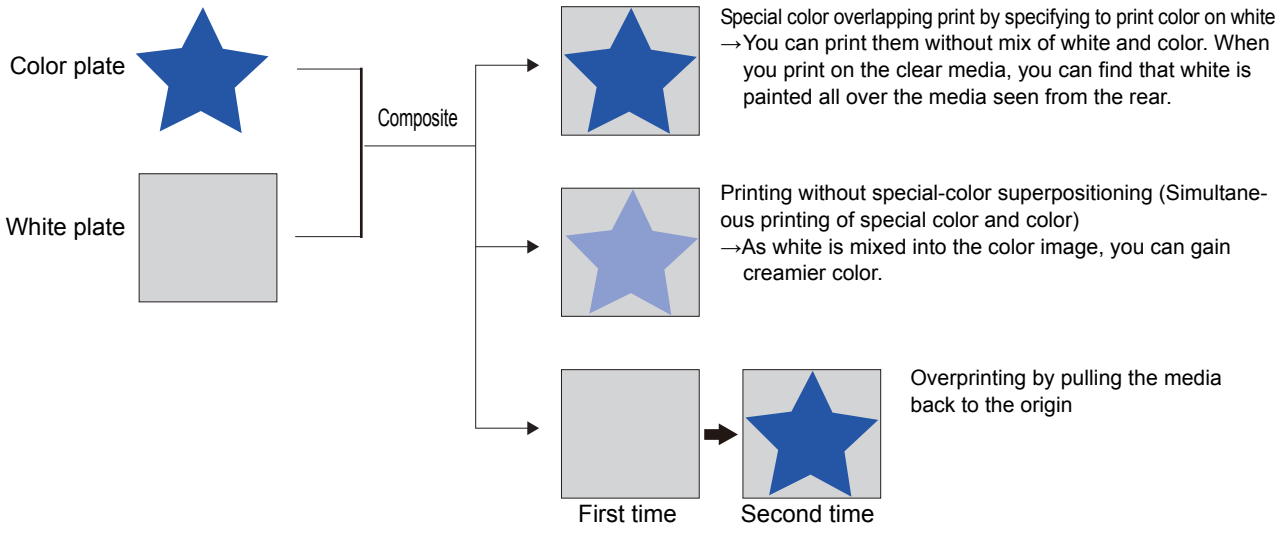


Composite of color job and special color plate job

For Roll to Roll printers, the specifiable print methods vary depending on the printer model. The following table shows the methods that can be specified for a composite of color job and special color plate job.

Machine	Special color overprint	Special color overprint not applied	Auto pull-back print
JV400 series/ UJV500	Prints by using the following two methods: • Prints two layers of color and special color at the same time. • Prints three layers in the following order: color, special color, and color.	Creates image data with color and special color layers overlapping each other and simultaneously prints these layers.	Not supported.
JV33/CJV30	Prints two layers of color and special color at the same time.		Not supported.
JV300	Prints by using the following two methods: • Prints two layers of color and special color at the same time. • Prints three layers consisting of color and special color layers placed one on top of another in an arbitrary order.		Not supported.
CJV300/CJV150	Prints by using the following two methods: • Prints two layers of color and special color at the same time. • Prints three layers consisting of color and special color layers placed one on top of another in an arbitrary order.		Prints only an arbitrary job first, pulls back the media when the print job is completed, and then prints the remaining images over the printed job.
Roll to Roll printers except for the above	Not supported.		Not supported.

Example: Composing a color plate with a white special-color plate



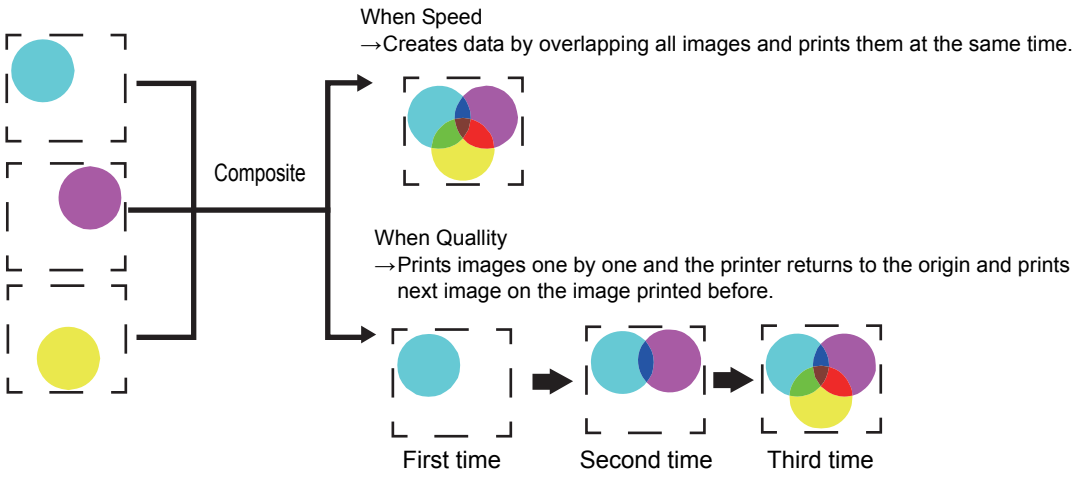
For flat-bed printer

For flat-bed printer, the behavior differs depending on the [Priority pollicy] (☞P.84) specified at composite.

Composite of color jobs

When [Priority policy] is "Speed" : Creates printing data by overlapping all image data and prints at the same time.

When [Priority policy] is "Quality": Prints images one by one and when print has been completed, the printer returns to the origin and prints next image on the image printed before.



Composite of color job and special color plate

When you compose color job and special color (white etc.) job, prints as below depending on the setting of [Priority pollicy].

When [Priority policy] is "Speed" : Prints two layers of color and special color at the same time by using the "special color overlapping print" function.

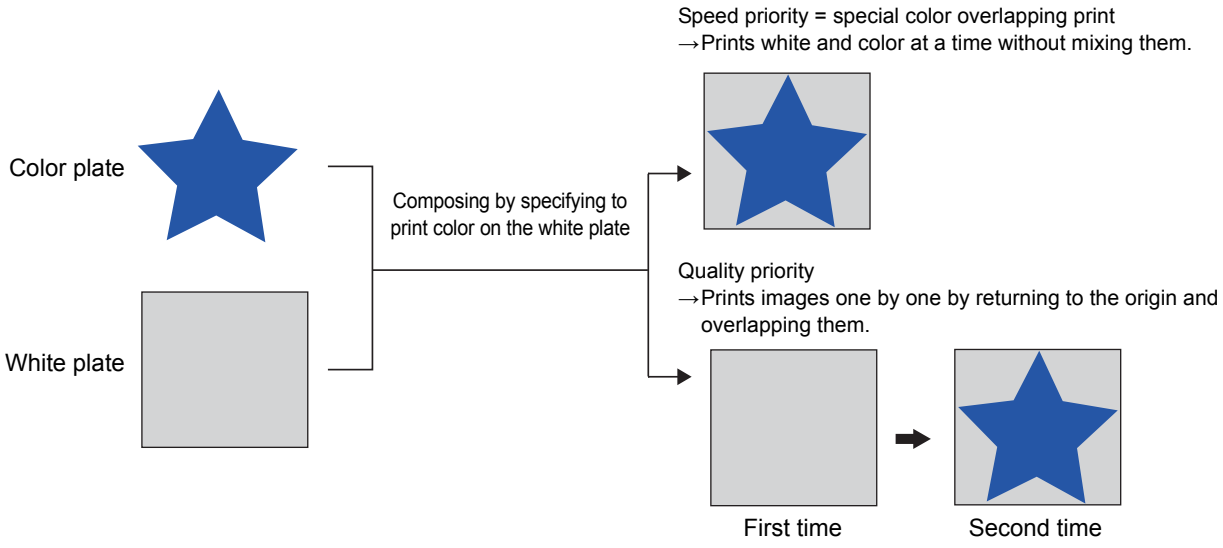
When [Priority policy] is "Quality" : Prints images one by one and when print has been completed, the printer returns to the origin and prints next image on the image printed before.

Important!

- When you specify the ink set using light cyan and light magenta, even if you specify "Speed", the operation is the same as "Quality".
- If the special-color plate is clear, the printing method will be determined by the UV mode settings (☞P.33).

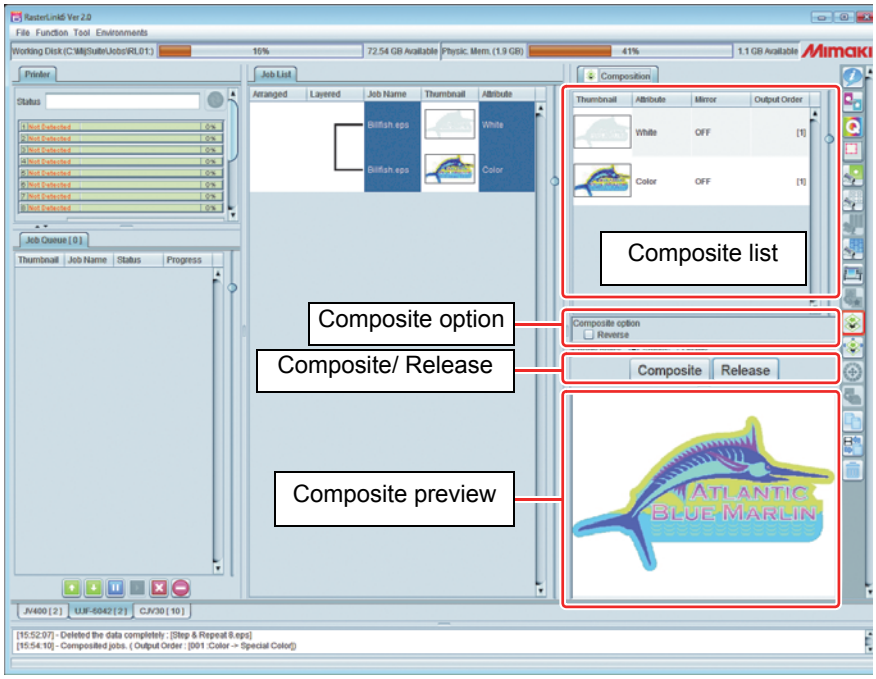
Color and special color are surely printed by overlapping them. You cannot print color and special color at the same time.

Example: Composing a color plate with a white special-color plate

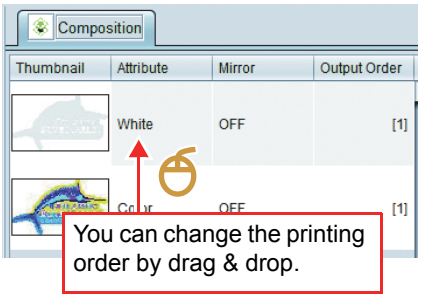


Screen configuration

Rough configuration



Composite list



Jobs to be composed are displayed. The job selected in the job list is displayed as the target to compose.
For the flatbed printer, prints from the bottom of the list.
(The final order is displayed in the [Output order] column.)
You can change the printing order by drag & drop the item in the list.
If you change the order after composite, click [Composite] button again after changing the list order.

Composite option

Reverse When this is ON, you can make mirror image of the job selected in the list.

Priority policy This is displayed only for the flatbed printer.
Select the overprinting method from the followings:

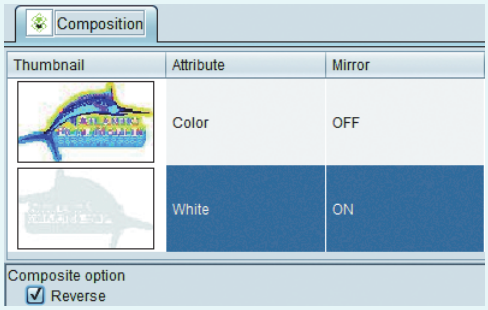
- **Speed**
  Prints as fast as possible by using special color overprint etc.
- **Quality**
  Prints the image one by one and when one printing is completed, returns to the origin and prints next image on the image printed previously. Though the image quality is good, speed is slow.

- When you set to “Quality”, prints the image one by one. Therefore, you can change the resolution by image. (You can use it by setting high image quality for color and setting low resolution for white because the speed has priority.) For details, refer to Printing conditions P.92.

“Mirroring” relationship between the general print screen and the composed screen

“Mirroring” specified on the general print screen is carried out collectively on a job group after it has been composed.

“Mirroring” specified on the composed screen is carried out on specified jobs only. Use it when you want to mirror only a white plate at the center, as in 3-layer printing, or for similar purposes.



When composition is carried out in the order in the list on the right, the results will be as shown below.

e.g. 1: If mirroring of the white job is turned on on the composed screen and turned off on the general print screen:
→ Mirroring will be applied to the white job.

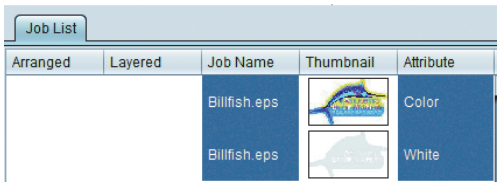
e.g.2: If mirroring of the white job is turned on on the both composed screen and the general print screen:
→ The result will be a mirror image of Example 1 – in other words, mirroring will be applied to the color job.

Pull back after Print : Displayed in CJV300/CJV150.
When this option is ON, simultaneously prints the jobs up to the job selected in the list, pulls the media back to the print origin, and then prints the remaining jobs. This option is effective when you want to print color after drying special color well in the overprinting of special color and color. For Print & Cut jobs, pull back operation is always performed between printing and cutting. Note that you cannot disable the pull back setting.

Composite/ Release

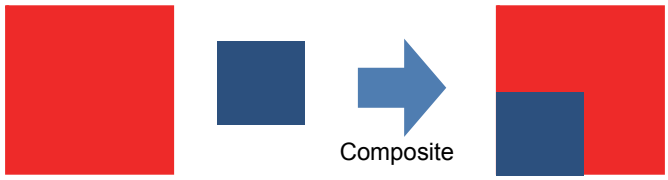
[Composite] button

Composes jobs in the composite list.
When they are composed, the composed jobs are connected with a line in the job list.



Important!

- When you compose images of different sizes, they are aligned with the lower left of the biggest one of jobs to be composed.



- The top values for zoom out/ zoom in/ rotation/ mirror and printing condition in the composite list are applied to all jobs.

[Release] button

Cancel job composite displayed in the composite list.

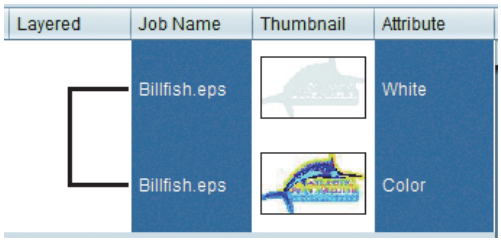
Composite preview

The preview of composed print is displayed. When you compose with special color plate, it is displayed with the preview color of the special color plate (☞P.79).

Procedures to compose

Compose

1 **Select multiple jobs to print by composition.**



2 **Select the composition icon.**

- The composition screen is displayed.

3 **Specify the overlapping order by drag & drop in the composition list.**

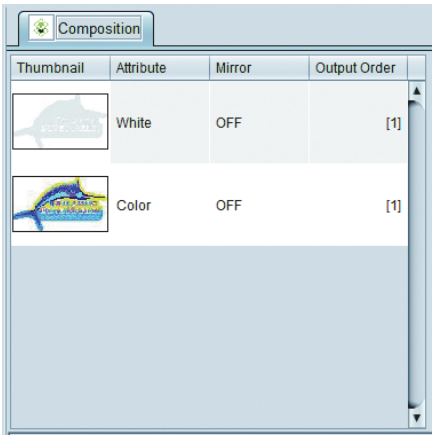
- Prints from the bottom of the list.
- For the listing order above, the image with white [Attribute] is printed under and the image with color [Attribute] is printed over.

4 **Among jobs to compose, if there is one on which you perform mirror print, select that job and make “Mirror” ON.**

- When you see from opposite side from the printed surface such as for clear media, set “Mirror” after composition in ”General Print" screen.

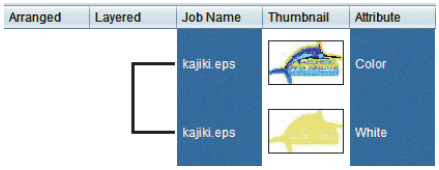
5 **For a flatbed printer, select [Speed] when you print as fast as possible and [Quality] when you make the image quality as good as possible.**

6 **Click [Composite].**



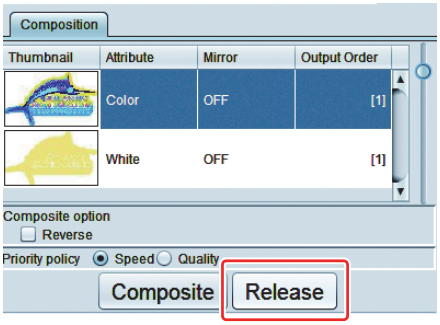
Release composition

1 **Select the composed job.**



2 **Select the composition icon.**

3 **Click [Release].**



4 **All composed jobs are released.**

Perform detailed setting of the composed image- Layer

Function

You can perform the operations below in [Layer].

- For the machine type supporting special color overlapping print, perform setting change of special color overlapping print.
- Correct the position and the size of special color.

Important!
- This function is available only when you set special color ink set.

Special color overlapping print

What is special color overlapping print?

Special color overlapping print is the method to print by overlapping special color (white/ silver/ primer/ clear) on the color image with a single print. Use this when you compose special color with color job, or, you perform color replacement of some part of color image by using special color. For printing at composition, refer to P.80 .

Machine type available for special color overlapping print

You can perform special color overlapping print in the machine type below.

Machine type	Target ink
JV400-LX	White
JV33/JV33-260	White / Silver
CJV30	White / Silver
UJF-3042FX	White / Primer / Clear
UJF-3042HG	White / Primer / Clear
JFX500	White / Primer / Clear
JFX200	White / Clear
UJF-6042	White / Primer / Clear
UJV500	White
JV300	White
CJV300/ CJV150	White / Silver

Position and size correction of special color

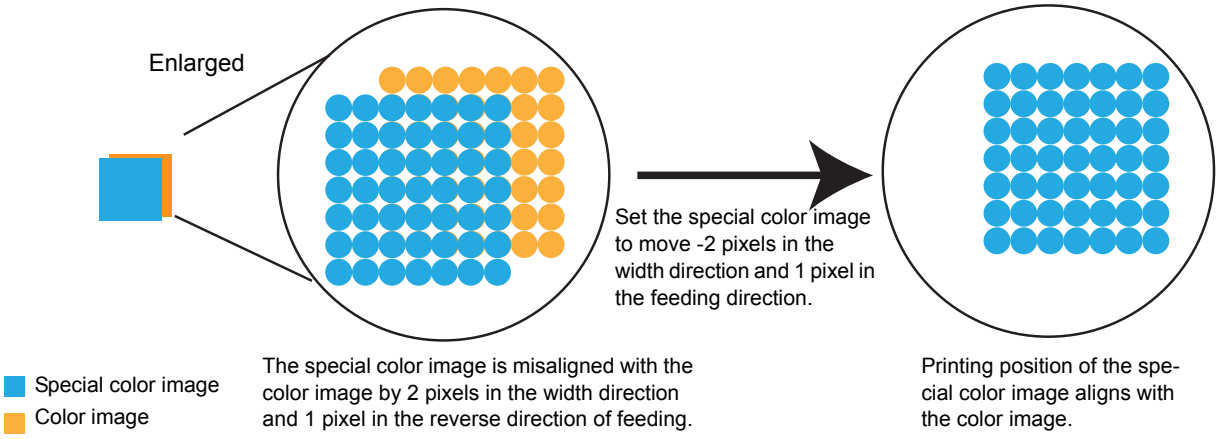
When you wish to solve the following problems, set the correction of position in layer editing and correction of size.

- When you print special color images (white and clear) and color images by overlapping them, they may be misaligned in some cases, and when you wish to correct this
- When you want to print clear so that it may cover a little over the color image.
- When you wish to print the white ink image a little smaller because white ink printed on the base is printed outside the color image

Correction of position

Move the special color image position by the specified pixels of feed/scan direction.

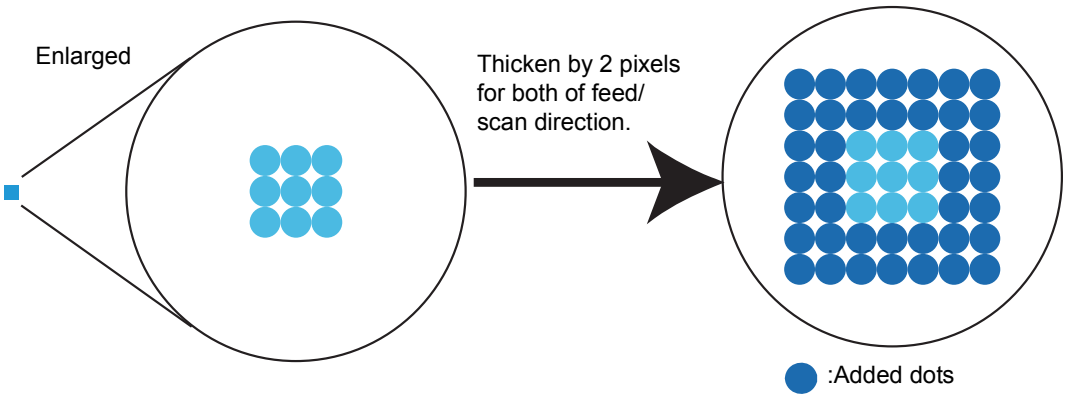
e.g..:When color image and special color image are misaligned as below:



Correction of size

Correct the size of the special color image.

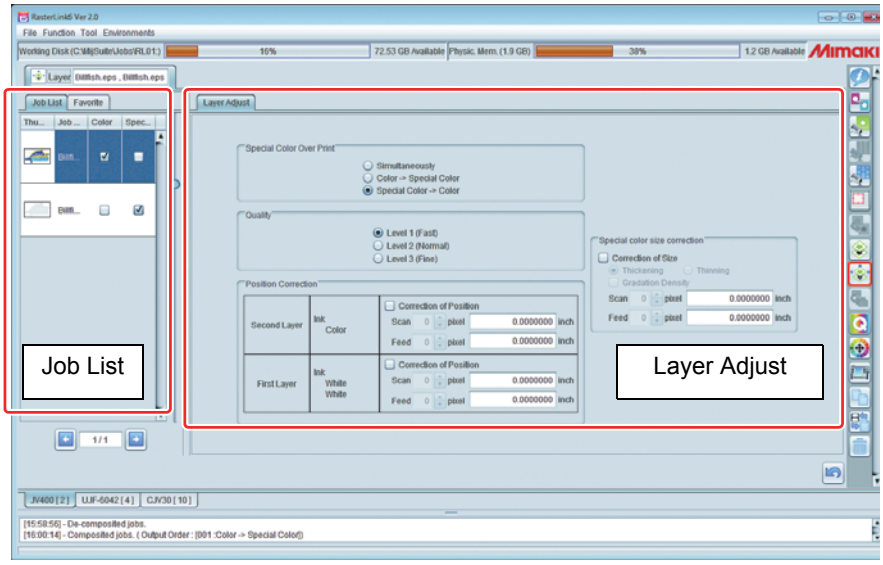
e.g..: When you set the special color image to thicken by 2 pixels for both of feed/scan direction



The size specification method is common to all machine types.

Screen configuration

Rough configuration

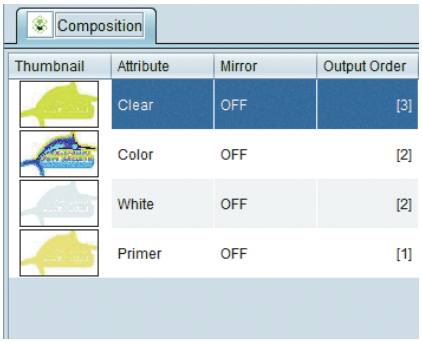


The layer adjust screen differs depending on the machine type and special color ink.

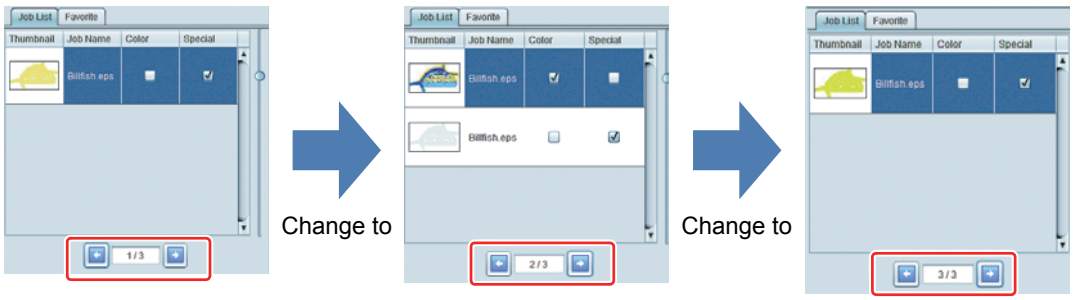
Job List

The list of jobs to be printed in the composed jobs at the same time is displayed. When print is performed by separating composite jobs into several times such as print by flat-bed printer, perform layer setting for each print. To change the setting screen for each print, use the arrow button under the job list.

e.g.) Displaying job list when you compose in the output order below in UJF-6042



Composite contents and order on composite screen
First time : Primer
Second time : White and color
Third time : Clear

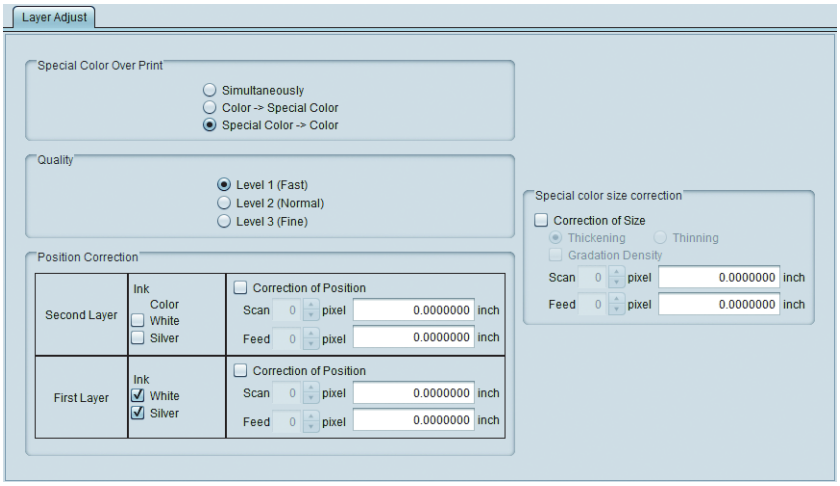


First time: Primer　　Second time: White and color　　Third time: Clear

Layer Adjust

Perform the settings below:
- Printing method of special color overprint (for printer supporting special color overprint)
- Correction of printing position and size of special color ink

The layer setting screen differs depending on the machine type/ special ink type/ with or without composition.
(The figure below is for when a special-color plate is composed with a color plate, by means of JV33 and with silver/white selected as the special-color ink set.)



Special Color Over Print
Displayed only for printer supporting special color overprint.
Specify whether you print color and special color by overlapping them and when you overlap them, specify the order to overlap.

Quality
Displayed only when you set to perform special color overprint and for printer with quality setting.
Specify the printing quality when you perform special color overprint. The higher the level becomes, the better the image quality becomes. However, the printing speed is slower.

Position Correction
Moves the special color data position by pixel. Correction is from −99 to +99 pixels.
For details, refer to P.89.

Special color size correction
Corrects the special color data size by pixel.
For details, refer to P.89.

Set the print condition - Quality

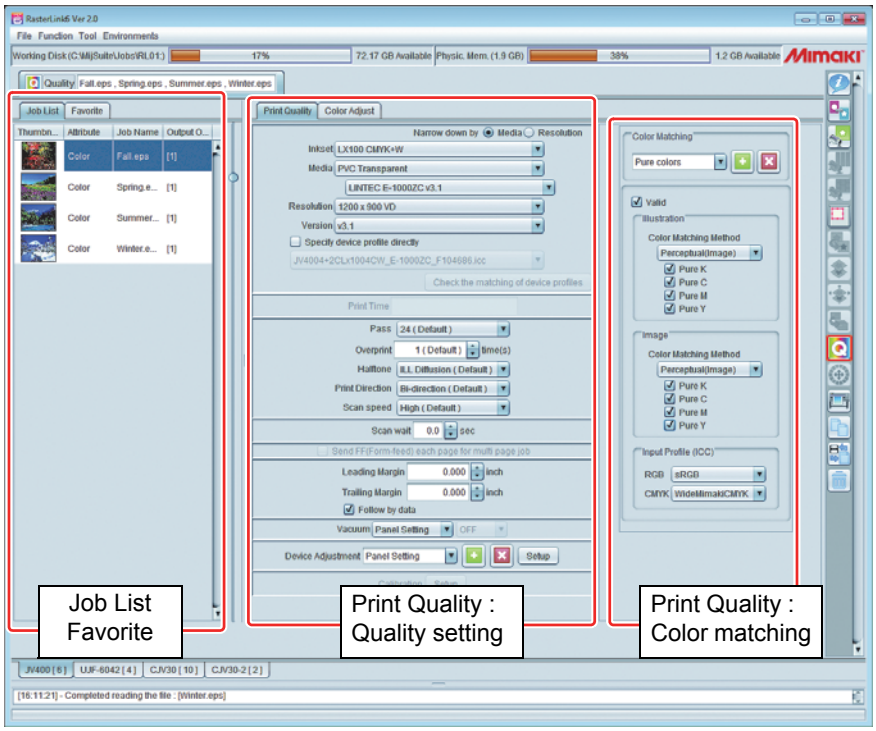
Function

You can perform the operations below in [Quality].

- Selecting device profile
- Setting various output conditions
- Setting color matching method
- Setting color adjustment

Screen configuration

Rough configuration



Job List

The list of imposed and composed jobs is displayed.
Perform setting by job selected from the list. If you perform the same setting to all jobs, select all jobs here.

Important!

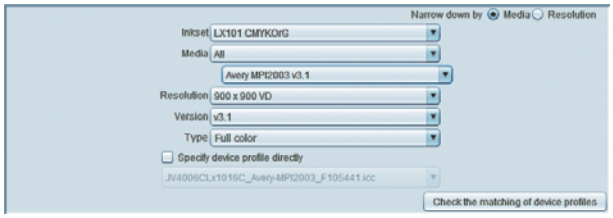
- If [Output Order] are same, those jobs are output at the same time. Therefore, it is necessary to make the settings below of [Print Quality] the same.
  (In addition, depending on the machine type, other setting shall be the same.)
- If [Output Order] are different, you can change all setting by job.

Print Quality: Quality setting

The setting contents of the quality setting column of drawing quality differ depending on the machine type. Here, the setting items that are common to all machine types are explained.

Selecting device profile

The “device profile” is the file that has the printing condition and data to adjust the ink amount to gain the best image quality.
The device profile exists for each printer, ink set, media and resolution. In the drawing quality screen, select the device profile by narrowing down these conditions.



- The device profile is provided in the CD/ DVD attached with the product as well as by the method below:
  (1) Download from our official site
  (2) Installation using profile update
  For the above, refer to the installation guide.
- By using “MimakiProfileMasterII” (separately sold), you can create the device profile by yourself.

Narrow down by : Specify the order to narrow down.
- Media
  Narrow down in order of ink set g media type g media name g resolution.
- Resolution
  Narrow down in order of ink set g resolution g media type g media name.

Inkset : Select the ink set that you use.

Media : The combo box in the first line is [Media type] and the one in the second line is [Media name].

- [Media type] is displayed/ categorized based on the information registered in the device profile. However, there is a device profile without this information. [Media type] of such a device profile is “Other”.
- When you select “All” to [Media type], all media are displayed in [Media name].

Resolution : Specify the output resolution.
If the number of resolution is high, though the image quality is improved, the printing speed becomes slow. On the other hand, if the number is low, though the printing speed becomes fast, the image quality becomes degraded.
(For the image quality/ speed, the setting of [Selecting output setting] ☞P.96 has influence. Refer to it.)

Version : Display the version of the device profile.

Important!
- You cannot use the profile of V1 profile and V2 profile (extension is “cot” for both) supported in RasterLinkPro5 and earlier.

Type : Display the type of the device profile.

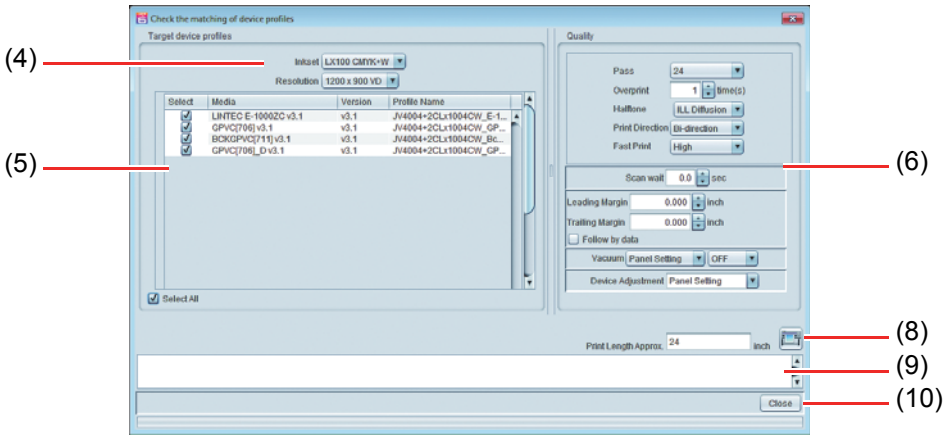
Specify device profile directly :
Specify the device profile from the file name.

Check the matching of device profiles

You can print one image with imposition by using multiple profiles.
There is a case that you do not know which profile shall be applied against new media. If there is no profile dedicated to that media, use the profile for similar media.
However, if multiple profiles exist, or, if you do not know the proper media at all, you can choose the profile by using this function and printing with multiple profiles at a time.

Important!
- When the selected job has settings below, you cannot use this function.
  Composite, imposition, tiling, step & repeat
- Color adjustment is not applied with this function.

When you press [Check the matching of device profiles], the dialog below is displayed.

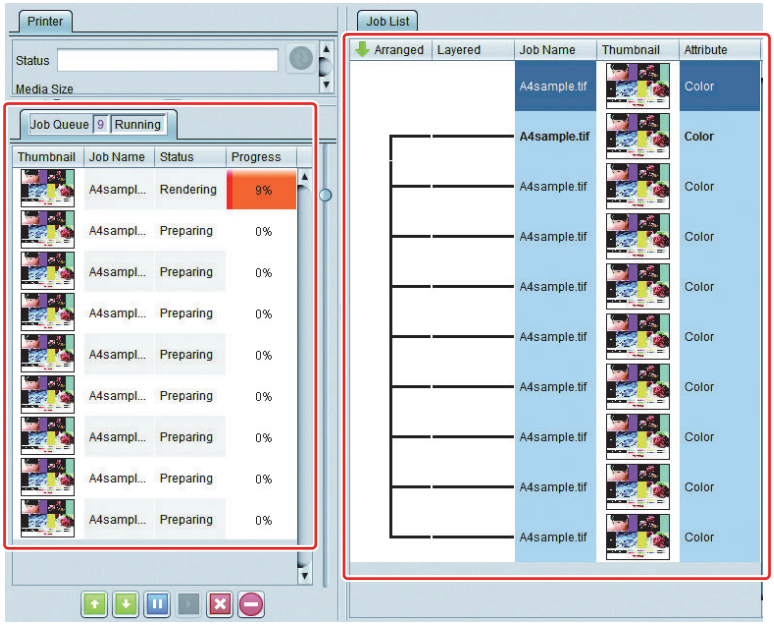


The parenthesized numbers in the figure correspond to the numbered steps in the execution method below.

Actual procedures

(1) Select a job that you want to print with multiple profiles.
  • As print is performed with this job being nested and copied by the number of profiles automatically, set the image size etc. in [General Print] in advance.
(2) Open the [Quality] screen.
(3) Press the [Check the matching of device profiles] button.
(4) Select [Inkset][Resolution].
  • You cannot select the device profiles with different ink set and different resolution.
(5) The list of selected [Inkset][Resolution] profiles is displayed. Check the checkbox of the selection column of the profile to print.
  • When you use all profiles, check the [Select All] checkbox.
(6) Select the print condition.
(7) The media length required for the printing will be displayed for your reference.
(8) Press (Print) button.
(9) [Confirmation] dialog box will be displayed. Click the [OK] button. The [Check the matching of device profiles] dialog box will be closed.

(10) When you change the screen to [Properties] screen, you can check that the same number of jobs as the ones you selected in the [Check the matching of device profiles] dialog and they are processed/output.



(11) Printing will be executed with the images arranged over the full width, without any margins.

(12) As the profile name is printed above each image, apply it to the actual job.

Printing time estimate

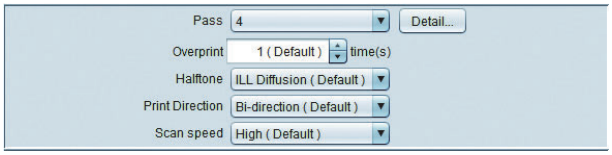
If you execute printing with the currently displayed conditions, an estimate of the time the printing will take will be displayed. It does not include RIP time. The printing time estimate is displayed with the following models, when connected to a printer.
JV400, JV400-SUV, TS500, TX500, UJV500, JV300, JV150

Important!

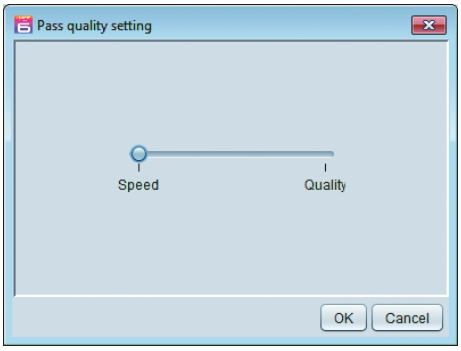
- An estimate of the time the printing will take when Logical seek is set to OFF will be displayed. If Logical seek is set to ON, an estimate of the time the printing will take might be significantly different from the actually expended time.
- Printing time estimate is not displayed when settings are made for Print & Cut jobs and the Auto pull-back print.

Selecting output setting

The value set in the device profile is displayed by default. In addition, (Default) is added to that value.



Pass : Specify the number of splits of one band (max. feeding width printable in one scan).
The more the number of splits is large, the more the image quality is improved and the slower the print speed becomes.
Click the [Detail...] button to display the following dialog box:



Move the slider toward “Quality”, and the image quality improves, but the media feed speed slows down.

Overprint : Specify the number of scans at drawing one pass.
If you increase the number of scans, the density becomes high.

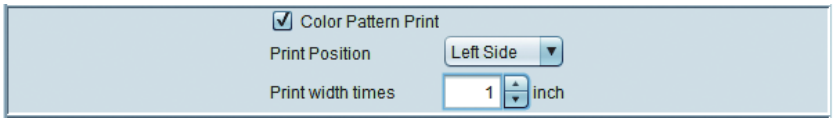
Halftone : Specify the gradation expression of print.

Print Direction : Uni -direction
When the head moves to the opposite side, it discharges ink and print. Compared to “Bidirectional”, it has high resolution, however, print speed becomes slower.
Bi-direction
When the head moves forward and back, it discharges ink and performs printing. Quality is not as good as with “Uni-direction”, but is faster.
For some machine types, you cannot set this.

Scan speed : Print at high speed. However, the quality becomes lower than general print. Depending on the combination between the machine type and the resolution, you cannot set this in some cases.

● Color Pattern Print

Print a Color pattern for nozzle clogging detection beside an image.



Print Positiom : Specify where to print a Color pattern.
Left Side Prints from the position, the output width +20mm.
Right Side Prints from the print origin.
Both Sides Prints on both left and right side.

Print width times: Specifies the left-end Color pattern print width. Specify a value in the range from 1 time to five times.

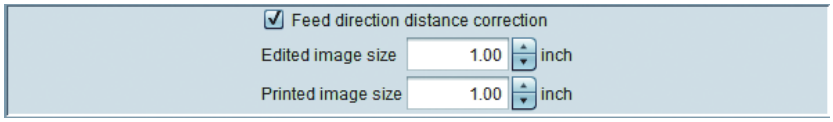
- The print width for 1 nozzle of Color pattern is 1.8mm (1 time).

Important!

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

● Feed direction distance correction (only flat bed printer)

Print by correcting the print size, move amount, and spacing in the feed direction.

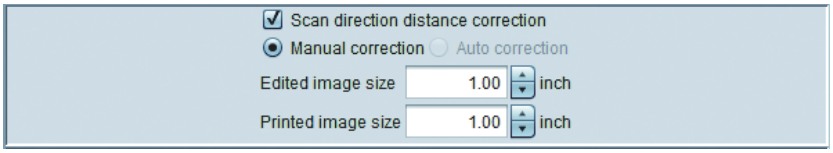


Edited image size : Enter the size of print data in the feed direction.

Printed image size: Enter the measured value in the feed direction for the data printed without correcting the distance.

● Scan direction distance correction (only flat bed printer)

Print by correcting the print size, move amount, and spacing in the direction of the width.

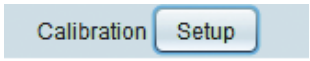


Auto correction : Prints by using the printer's corrected values. (Displayed in JFX200.)

Manual correction : **Edited image size** Enter the size of print data in the direction of the width.
Printed image size Enter the measured value in the direction of the width for the data printed without correcting the distance.

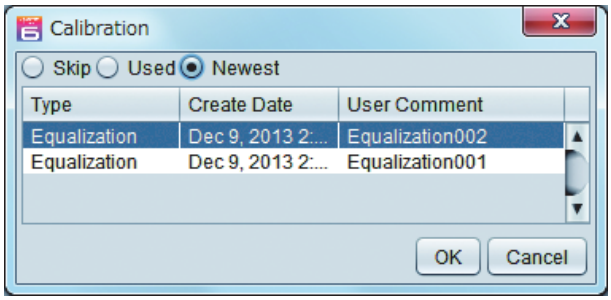
Calibration

Set the using method of “Calibration” and “Equalization” data in the device profile.



- The [Setting] button of calibration becomes valid when you select the device profile with the calibration data.
  When you add the calibration data to the device profile, use our profile creating software “MimakiProfileMasterII” (separately sold).

When you press the setting button, the dialog below is displayed.



No use : Perform color matching without using data of calibration or equalization.

Use : Data of calibration or equalization selected from the list below is used.

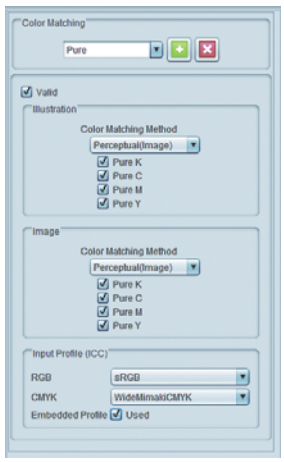
Newest : Data of calibration or equalization whose creation date is latest is always used. When you add information every day, it can save your time to select each time.

Print Quality: Color matching

Color matching means to match output color with input color.
Based on the ICC profile and the own data, match the color.

Illustration and image

You can set color matching setting for illustration (vector data) and image (raster data) separately.



- When you use “Effect” such as Gauss, Transparence for the vector object in Adobe Illustrator, some parts of this object is converted into the raster data. In such a case, use the same setting for both the illustration and the image, as using a different setting for the illustration and the image will result in colors varying inside the same object.

Color Matching
Keep the color matching setting as the template.
By entering the name and pressing the [+] button, you can add the preset.

Valid Select whether you perform color matching or not.
When this is OFF, the operation other than ink limit process is not performed.

Color Matching Method

Perceptual (Image)

This is suitable for the photo image. Color matching is performed so that brightness of entire image becomes closer to the input image.

Saturation (Graphics)

This is suitable for illustration image. Color matching is performed so that the entire image becomes deep.

Relative

Performs color matching for colors in the same color gamut of the input profile and the device profile so that they become closer as much as possible. However, if the color becomes outside the color gamut of the device profile even if the color can be expressed in the input profile, it is rounded to the color in the color gamut that can be expressed in the device profile. Therefore, high saturation part is collapsed.

Absolute

The method to maintain the relative color gamut is the same as the color matching method. However, in the method to maintain the relative color gamut, even if white (media color) is different from the input profile, no correction is performed. In this mode, color correction is performed on the color including media color so that it may come closer to the color of input profile. As a result, color may be printed on white part of the original image in some cases.

Gray Balance

This is valid when the image data color is CMYK color mode. Tone adjustment of CMYK is performed and color matching calculation using the ICC profile is not performed. Specify this when you perform color matching process at application side.

Pure K, Pure C, Pure M, Pure Y

This is valid when the image data color is CMYK color mode. If you perform color matching using the ICC profile, even if you specify the image color with either of C, M, Y and K, they become mixed color at print.

When this is ON, if there is a single color of C, M, Y and K respectively. It makes the colors not be mixed.

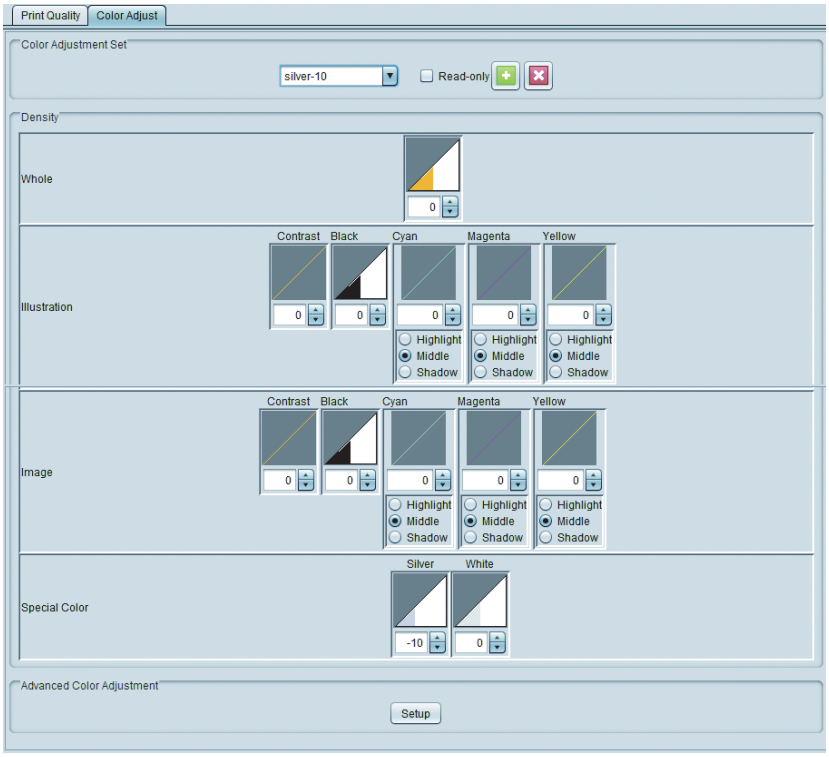
Input Profile

Specify the profile of input side. When there is a target profile, you can install with the profile manager.

If a profile has been embedded in the images, a [Embedded Profile] check box will appear. Putting a check mark in this box will prioritize use of the embedded profile as the input profile.

Color Adust

Color adjustment adjusts the ink amount after color patching process.
You can adjust the ink amount of CMYK as well as special color ink such as white and silver.



Color Adjustment set Add the set name in which you save the setting.

- Color adjustment depends on the device profile. Even the color adjustment set registered once is not displayed if the device profile is different.
  In addition, even the same color adjustment set is handled as a different adjustment file if the device profile is different.
- When you select [Standard], you cannot edit color adjustment.

Density Adjust the density.
Set by illustration (vector object) and image (raster object) other than for [Entire].

Whole

Change the ink limit value set in the device profile with the same ratio for each ink.
It is effective when ink is dark or light entirely.

The ink limit is changed to the value calculated by multiplying it by the value specified here.
Ink increases with +1 to 50% setting, however, the final ink limit cannot exceed 100%.
e.g.) when ink limit of cyan is set to 70% in device profile

[Whole] value	Ink limit of cyan
-50%	35% (70%×(100-50)% = 35%)
-10%	63% (70%×(100-10)% = 63%)
+40%	98% (70%×(100+40)% = 98%)
+50%	100% (However it becomes 70% x (100+50)% = 105%, it is rounded to 100%.)

Contrast

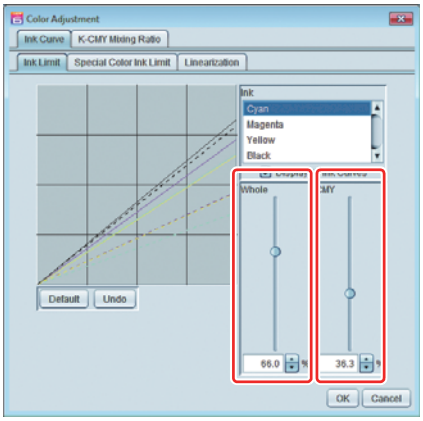
Change contrast between -50% to +50%.
-50%~-1% Becomes the direction without change of colors.
+1%~+50% Becomes the direction with big change of colors. You can make images sharper, however, tone at the high density part is collapsed.

Black	Change the ink amount of black and cyan/ magenta/ yellow between -50% to +50%. **-50%~-1%** Lowers the ink limit of black ink by ratio. **0%** K-CMY adjustment of detailed setting becomes valid. (When it is other than 0%, K-CMY adjustment setting becomes invalid.) **+1%~+50%** Increases the black ink amount and decreases ink amount of cyan/ magenta/ yellow. To perform more detailed setting, perform K-CMY adjustment.
Cyan, Magenta, Yellow	Change each ink amount of cyan/ magenta/ yellow between -50% to +50%. This is effective when you adjust the hue. The ink amount of middle part is changed, however, the ink limit is not changed. **Highlight** Changes the ink amount focusing around bright part. **Middle** Changes the ink amount focusing around 50% part. **Shadow** Changes the ink amount focusing around dark part.
Special Color	Change the amount of spot color ink between -50% to +50%. The ink limit is not changed. Adjusting the concentration of spot color is enabled if you are using a profile version of v3.3 or later.

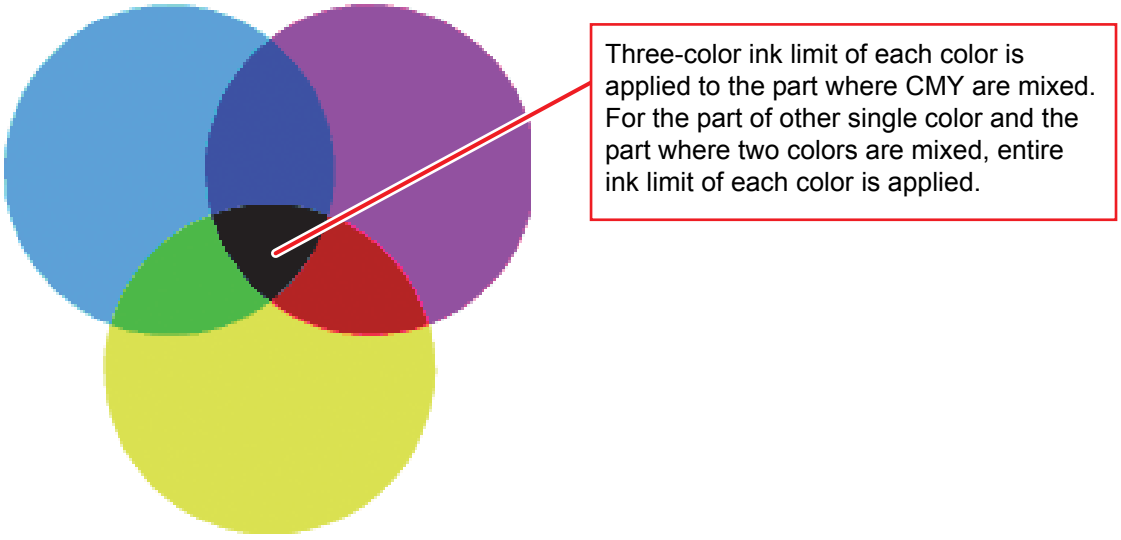
Detailed color adjustment

Pressing the SET button will open a screen for ink limit, linearization, special-color ink limit and K-CMY ratio adjustment.

Ink Limit

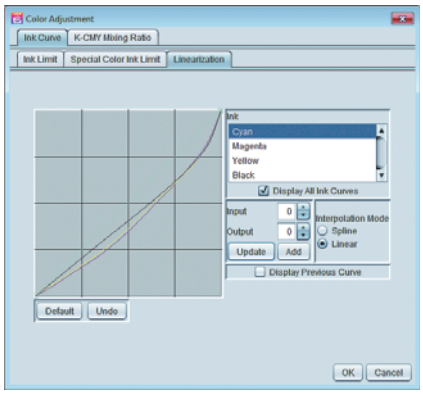


Change each ink limit of process color ink (cyan, magenta, yellow and black, etc.) with the slider.
Entire is the setting of each color ink limit. Third-order color is the ink limit used when ink of more than three inks are mixed. The ink limit of Entire is the upper limit of Third-order color.
If ink blurs at the part where more than three inks are mixed, you can reduce ink with this setting.



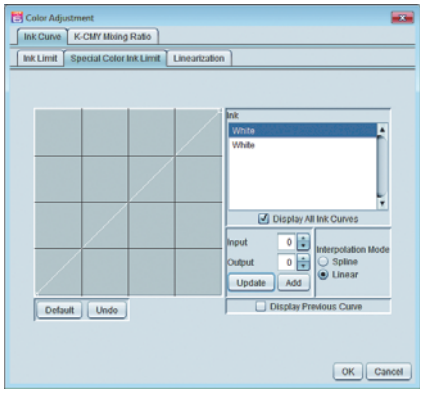
C0,M0,Y0 The limit of entire cyan, entire magenta and entire yellow are used respectively.
C1,M1,Y1 The limit of cyan third-order, magenta third-order and yellow third-order are used respectively.

Linearization



Perform curve edit on halftone density of process color ink (cyan, magenta, yellow and black, etc).
Adjust tone so that each ink can be printed as smooth gradation.
You can change the maximum density (ink limit) here, however, as the ink limit adjustment becomes hard, do not change the maximum density.

Special color ink limit

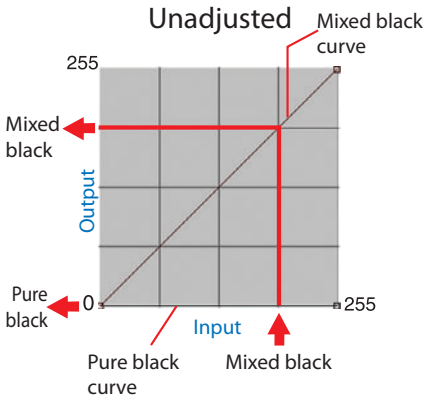


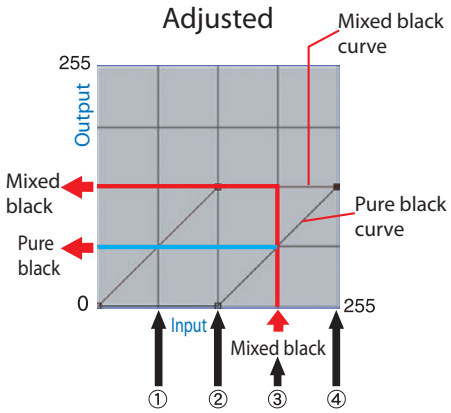
Adjust special ink density of white, clear, silver, etc.
Though the setting specified in input is used as it is by default, perform curve adjustment in this screen when the density change of gradation is poor etc.

K-CMY Mixing Ratio

Perform curve edit on the using ratio of black and cyan/ magenta/ yellow.
Adjustment is possible for each illustration and image.
If input is a RGB image and ink spill out at the shadow part, you can reduce the ink amount without changing colors at the shadow part, by reducing cyan/ magenta/ yellow and increasing black.

Important!
- When you set 0% to Black in [Density], you cannot perform setting.



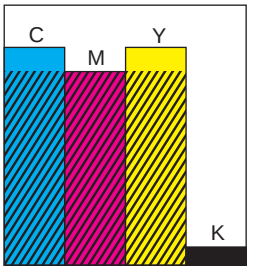


Value of adjusted curve

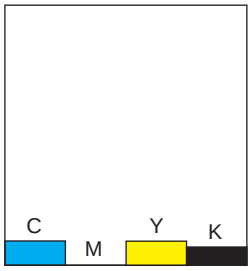
	Input color				Mixed black		Single color black		Output color				Explanation
	A			B									
	C	M	Y	K	Input	Output	Input	Output	C	M	Y	K	
(1)	64	85	64	5	64	64	64	0	64	85	64	5	No change
(2)	128	150	160	5	128	128	128	0	128	150	160	5	No change
(3)	200	192	200	5	192	128	192	64	136	128	136	69	A part of CMY changes into K.
(4)	255	255	255	5	255	128	255	128	128	128	128	133	A part of CMY changes into K.

Calculation of (3)

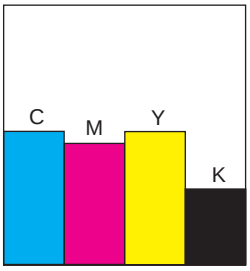
C 200 - 192 + 128 = 136
M 192 - 192 + 128 = 128
Y 200 - 192 + 128 = 136
K 5 + 64 = 69



The shaded area is mixed black of CMY.



The input of mixed black is removed from CMY.



The output of mixed black is added to CMY.
The output of single color black is added to K.

Replace a color of the image with another color - Color replacement

Function

You can perform the operations below in [Color replacement] screen.

- Select CMYK color or spot color in the image and replace it with another ink color or L*a*b value.
- Replace the gradation color of CMYK color.

About data

Data available for color replacement

You can perform color replacement on data satisfying all conditions below:

Color mode	CMYK
File format	ps, eps, pdf
Object	Vector object (illustration object) Raster object (illustration object) such as photos is impossible. However, even if you perform color replacement on the object whose conditions are as below, you cannot print correctly in some cases. • The one on which the filter effect such as Drop shadow, Transparence and Gauss of Adobe Illustrator was performed • Gradation object (*) when [Compatible gradation & gradation mesh print] of Adobe Illustrator is checked

(*) When you perform color replacement on gradation, there are further conditions. (Refer to the next chapter “Gradation”.)

Replaceable color

Spot color : This is a special color with name (it is called [Special color] or [Spot color] in Illustrator etc.).
(For the concrete specification method of spot color on Illustrator, refer to P.114.)

CMYK : Replaces a process color (color consisting of cyan, magenta, yellow and black etc.).

Gradation : You can replace four kinds of gradation below.
(For the concrete specification method of gradation on Illustrator, refer to P.116.)

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 that can be specified as color after replacement

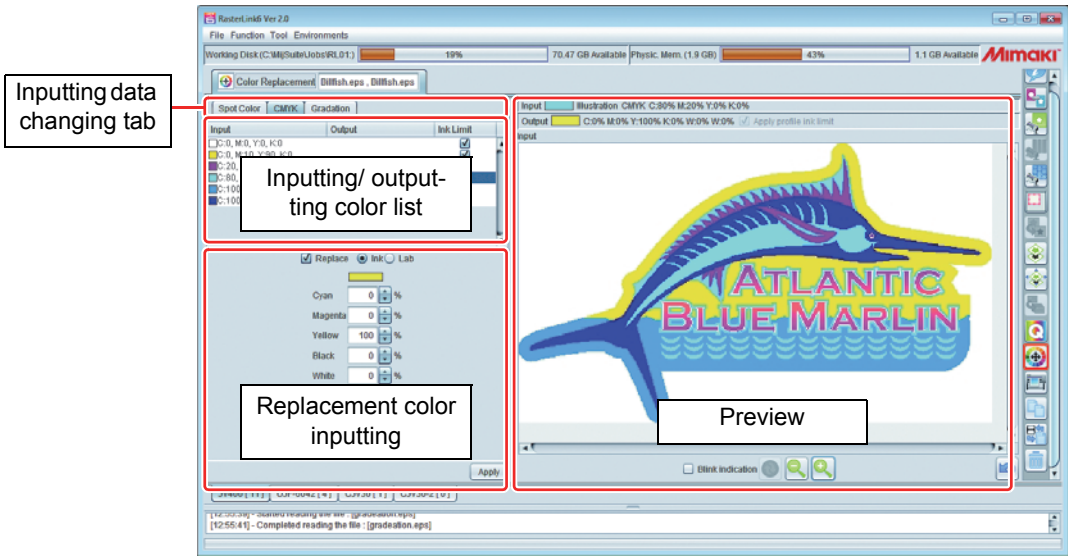
You can specify the color below after replacement:

- Ink : Specify ink color and its density of the printer with 0% to 100%. When you specify with ink color, the color differs depending on the machine type and ink.
- L*a*b* : L*a*b is the coordinate value of the color space that is independent on the machine.
  As it is independent on the machine (printer and ink), when you specify the same numerical value, even if it is other machine type and other ink, you can output with similar colors.
  Specify L (brightness), a* (red-green space coordinates) and b* (blue-yellow space coordinates).

- When you set color correction (P.143) to “Use” (P.144), if there is a condition to be matched at reading the image, color replacement is performed automatically.

Screen configuration

Rough configuration



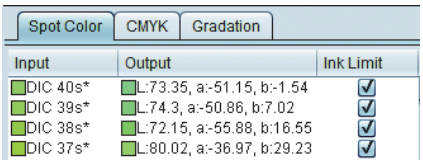
Input data switching tab

There is the [Inputting/ outputting color list] and [Replacement color Inputting] screen by color type available for replacement.

Inputting/ outputting color list

The list of colors for each inputting data inside the image.

Spot color

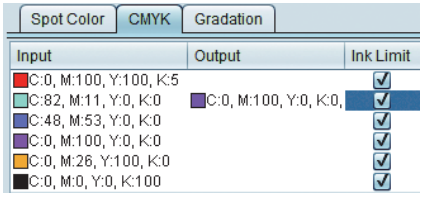


Input Displays special color name and displayed color on the preview.

Output Displays color after replacement and simulated print color.

Ink Limit Displays whether ink limit in the device profile is applied or not at printing.

CMYK

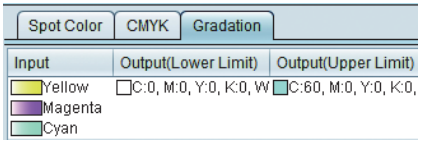


Input Displays the component value of CMYK and displayed color on the preview.

Output Displays color after replacement and simulated printed color.

Ink Limit Displays whether ink limit in the device profile is applied or not at printing.

Gradation



Input Displays gradation type (P.104).

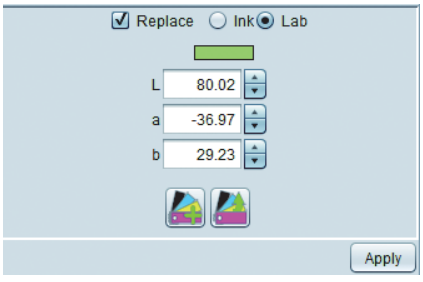
Output (Lower Limit) Displays the lowest limit value of gradation after replacement.

Output (Upper Limit) Displays the highest limit value of gradation after replacement.

Replacement inputting screen

The replacement inputting screen differs depending on the inputting data and the color after replacement.

● When inputting data is spot color/ CMYK and color after replacement is Lab



Replace Check this checkbox when you replace.

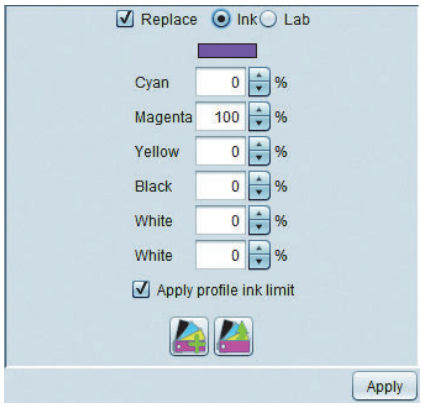
Input Input the numerical value for the color after replacement.

Register into color collection Register the color after color replacement into color collection. (P.111)

Select from color collection Select the color after color replacement from color collection. (P.111)

Apply When you press this, the setting is applied to the selected color.

● When inputting data is spot color/ CMYK and color after replacement is CMYK



Replace — Check this checkbox when you replace.

Input — Input the numerical value for the color after replacement.

Apply profile Ink limit — When this is ON, the ink limit of the profile is used. (For details, refer to “Color process at color replacement”.)

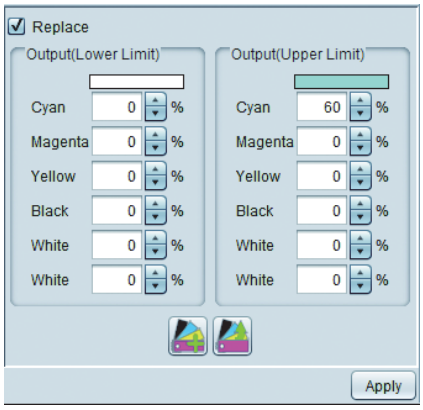
> Important!
> • When there is ink of special color ink set in three slots and more, “Apply profile ink limit” is always ON and you cannot change it.

Register into color collection — Register the color after color replacement into color collection. (☞P.111)

Select from color collection — Select the color after color replacement from color collection. (☞P.111)

Apply — When you press this, the setting is applied to the selected color.

● When inputting data is gradation



Replace — Check this checkbox when you replace.

Output (Lower Limit) — Set the replacement color for the lowest density of gradation.

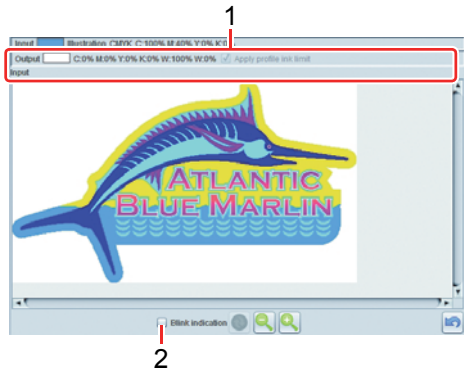
Output (Upper Limit) — Set the replacement color for the highest density of gradation.

Register into color collection — Register the color after color replacement into color collection. (☞P.111)

Select from color collection — Select the color after color replacement from color collection. (☞P.111)

Apply — When you press this, the setting is applied to the selected gradation.

Preview



1 Displays color information of the position you click with the mouse in the preview image.

Input : Displays object (illustration or image)/ color mode/ inputting color.

> • If there is any place on which color replacement cannot be performed, check whether it is data available for color replacement in this column (P.104).

Output : Displays color information after replacement.

2 Blink indication
When checked, the selected color part in the inputting/ outputting list is highlighted.

Note for color replacement

Note for data to be replaced

You cannot perform color replacement correctly for a color with the filter effect such as drop shadow/ transparence/ gradation of Adobe Illustrator.

When performing color replacement for spot colors

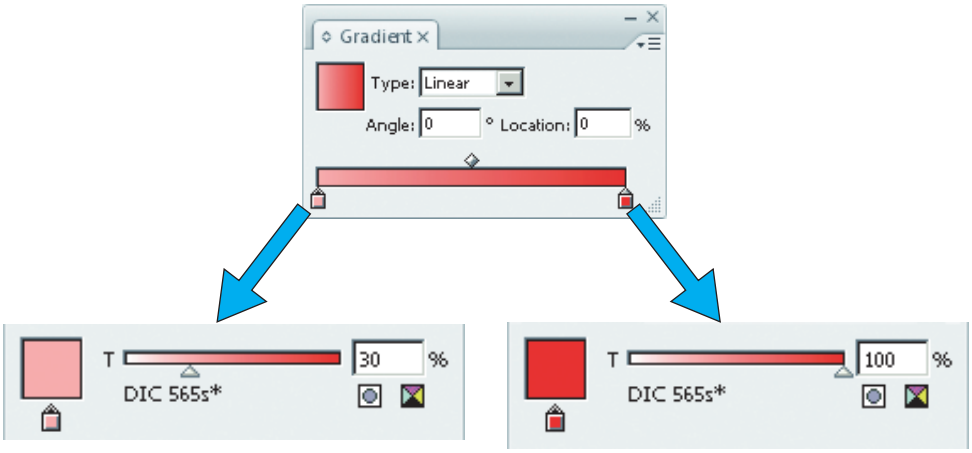
Following are cautions when using spot colors with changed density in animage.

- RasterLink sets ink density with respect to a spot color density of 100%.
  The ink density is calculated automatically based on the spot color density.
  Example:
  If a special color called Spot (display color given by C=100, M=0, Y=0, K=0) is printed at 100% density in one area and at 50% in another in Illustrator, and the ink density for Spot is set to C=0, M=80, Y=20, K=0 in RasterLink, the ink density for Spot in the area printed at 100% becomes C=0, M=80, Y=20, K=0 and the ink density for Spot in the area printed at 50% becomes C=0, M=40, Y=10, K=0.
- The color for a spot color displayed in the Color Replacement information list may be different from the display color specified in Illustrator. This is because the input color of the spot color displayed in the Color Replacement information list displays the colors matched to the density of the spot color detected first on the image in RasterLink.
  Example:
  If a special color called Spot (display color given by C=100, M=0, Y=0, K=0) is printed at 100% in one area and at 50% in another in Illustrator, and RasterLink detects first the area where Spot is printed at 50%, the display color for Spot in the Color Replacement information list is set to C=50, M=0, Y=0, K=0.

Changing the spot color used in gradation

If you want to specify a spot color as the color for gradation, it is only possible to change the color if the following two conditions are satisfied:

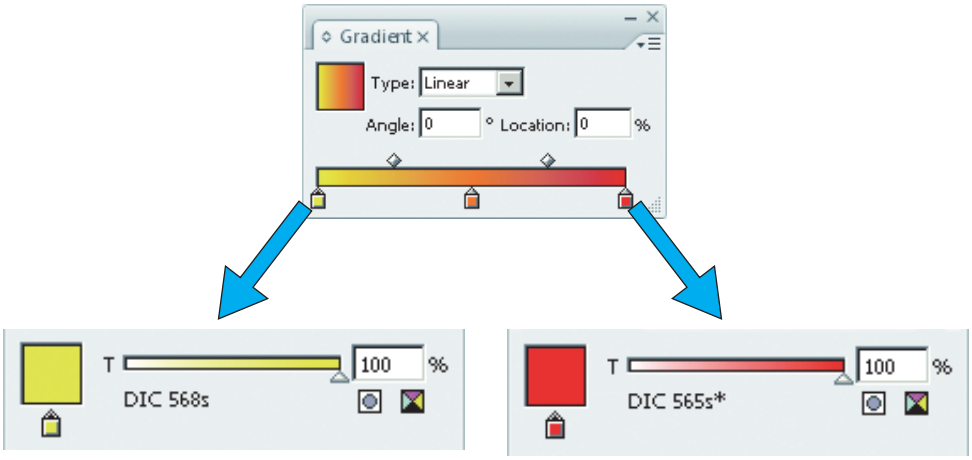
- The same spot color has been specified for all the gradation slides, and only the density differs.



- A check mark has been placed against [Compatible Gradient and Gradient Mesh Printing.] in the Illustration settings.

Specifying differing spot colors for gradation

If differing spot colors are specified as the colors for gradation, the colors cannot be changed. Also, when such differing colors have been specified, remove the check mark against [Compatible Gradient and Gradient Mesh Printing.] in the Illustration settings. If the check mark remains, the objects for which such gradation has been specified will not be printed, whether color changing has been set or not.



When performing color replacement for gradation

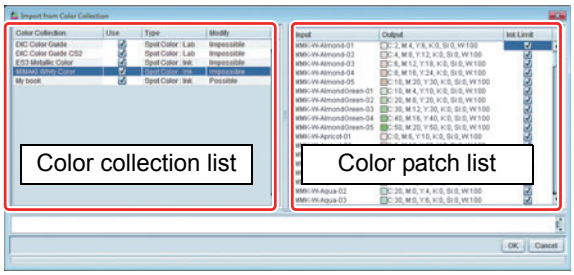
- If a midpoint is introduced between the maximum density and minimum density of a gradation by “Gradation slider” and the color is changed, color replacement cannot be performed.
- Color Replacement of gradations that include a lot of clipping paths may not be performed correctly.
- Color Replacement of gradations that use Illustrator filter effects such as Drop Shadows and Transparency may not be performed correctly.
- Illustrations with the same colors as those included in the gradation are also replaced.
  Example:
  Maximum density C = 100, M = 1, Y = 1, K = 1
  Minimum density C = 0, M = 1, Y = 1, K = 1
  If a C = 50, M = 1, Y = 1, K = 1 illustration is included in the data, it will be color replaced.
- Even if the setting of replacing gradations seems can be performed on the “Gradation” screen, the replacement will not be performed depending on the data. Check if the replacement will be performed or not, by reduced print in advance without fail.
- When the Illustrator setting “Compatible Gradient and Gradient Mesh Printing” is checked, gradation replacement cannot be set.

Linkage with color collection

The color collection is the library of color replacement information.
For details of the color collection is explained in P.143. Here, the function of the color collection that you can use from each replacement color inputting column of the color replacement screen is explained.

Select from color collection

Select color replacement information from the color collection and apply it to the job.
When you press (Select from color collection), the screen below is displayed.



Color collection list
Select the color collection.

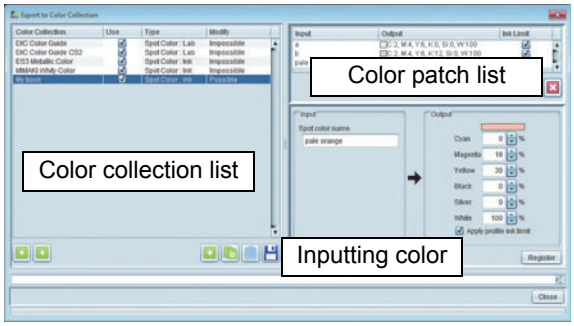
Color patch list
The color list inside the selected color collection is displayed.

Application procedures

(1) Select the color collection to use from [Color collection list].
(2) Select the color used as the one after replacement from [Color patch list].
(3) Press the [OK] button. The value is set in [Replacement color inputting] and it is applied.

Register to color collection

Register the replacement color input in the [Replacement color inputting] column into the color collection.
When you press (Register to color collection), the screen below is displayed.



Color collection list
Select the color collection to register.

Color patch list
The color list inside the selected color collection is displayed.

Inputting color
The color selected as the replacement source and the replacement information input in the [Replacement color inputting] column are displayed.

Application procedures

(1) Select the color collection whose color you register from [Color collection list].
(2) Check that the information input in the color replacement screen is in [Inputting color] and press the [Register] button.
(3) The data is registered in [Color patch list].

Important!

- If you activate [Apply profile ink limit], printing will be carried out with the set value changed to a lower value in order to alleviate ink overflow. (Even if you specify 100%, printing will be carried out with a value lower than that.)
  If you remove the check mark, printing will be carried out according to the specified color component values, but bleeding due to ink overflow and other printing faults will be liable to occur.
  As far as possible, use color changing with this function activated.

When you perform color replacement using special color

When you perform color replacement using color ink and special color ink at the same time as the color after replacement, depending on the printer and the layer setting (☞P.88), it is printed as below.

For Roll to Roll printer

● For JV33/ CJV30/ JV400/ UJV500/ JV300/ CJV300/ CJV150

With special-color superimposition printing set in Layer Setting (☞P.88), the color changing will be as follows.

Overlapping print of special color is not performed.
Prints special color and color at the same time. Therefore, special color and color ink are mixed.

Color ⇨ special color
After printing the color after replacement only, special color is overlapped on it.

Special color ⇨ color
After printing the special color after replacement only, color is overlapped on it.

● For other Roll to Roll printers

Prints the special color and the color at the same time. Therefore, it seems that inks are mixed.

For flat-bed printer

With special-color superimposition printing set in Layer Setting (☞P.88), the color changing will be as follows.

Color ⇨ special color
After printing the color after replacement only, special color is overlapped on it.

Special color ⇨ color
After printing the special color after replacement only, color is overlapped on it.

Color replacement setting

There are other functions to change a color other than color replacement. They are single color replacement (☞P.32) and plate creation (☞P.78). This chapter explains data creation for each main usage and setting method of these functions.
For data creation method, Illustrator CS5 is explained as the example.

To print with one color ink such as white

Use the single color replacement function.

● Data creation method on Illustaror

It is recommended to create data with CMYK single color.

1 **Make the image color mode [CMYK].**

- Select [Document Color Mode]-[CMYK Color] from the [File] menu.

2 **Select all objects and select only one color of CMYK.**

- For an object with one color, change with [Color].
- When you do not change the density change for gradation object, change with [Gradient].
- When it is difficult to change color on Illustrator as it is created using other effect, write into the raster format image and replace it with one color only with Photoshop etc.

3 **Save and read it into RasterLink.**

● Color replacement method

Refer to “Perform setting to print a full-color image with one ink color -Mono color replacement” (☞P.31).

To print special color such as white on clear media as the base and print color on it

Use the plate creation function.
For details, refer to P.78.

Replace spot colors in a color image

The spot color is special color with name. By adding usage etc. to the spot color name, it becomes reference for color replacement. Use the color replacing function to replace.

Important!
- Fully read note of color replacement and set.

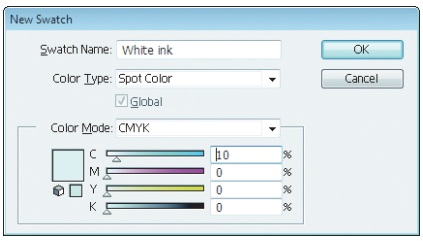
● Data creating method on Illustrator

1 Make the image color mode [CMYK].

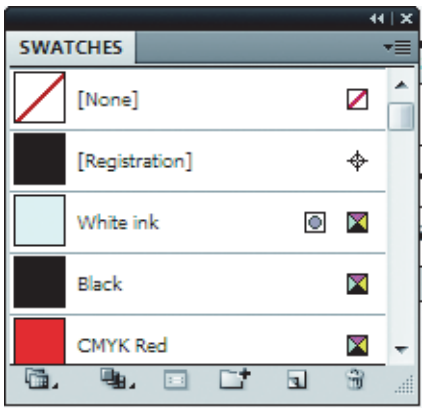
- Select [Document Color Mode]-[CMYK Color] from the [File] menu.

2 Register a spot color. (If you use the spot color already registered, proceed to the Step 3.)

(1) Select [Swatches] from the [Window] menu.
The [Swatches] window opens.
(2) Press the ▼ button at upper right and select [New Swatch...] from the displayed menu.
The [New Swatch...] window opens.
(3) Set as below and click OK.
- Swatch Name : Enter the color name.
- Color Type : Select “Special color”.
- Color Mode : Select “CMYK”.
- Color : Specify the displaying color. If color replacement is not performed, data is printed based on this color.



(4) It is registered in the list on the [Swatches] window.



3 Apply the spot color to the object.

(1) Select the object.
(2) Select either of “Stroke” or “Fill” by which you apply the spot color on the [Color] window.
(3) Select the created spot color from the [Swatches] window.
The color is applied to the object.

4 After you create data, save it and read it into RasterLink.

● Color replacing method

1 **Select a job and switch to the color replacing screen.**

2 **Open the [Spot Color] tab.**

- All spot colors used in the image are displayed in the list.

3 **Select a spot color to which you perform color replacement from the list.**

4 **Specify the replacement color.**

Replace CMYK color in the color image

Replace CMYK color.

Important!
- Fully read note of color replacement and set.

● Data creating method on Illustrator

1 **Make the image color mode [CMYK].**

- Select [Document Color Mode]-[CMYK Color] from the [File] menu.

2 **Specify the color in the [Color] window.**

3 **After you create data, save it and read it into RasterLink.**

● Color replacing method

1 **Select a job and switch to the color replacing screen.**

2 **Open the [CMYK] tab.**

- All CMYK colors used in the image are displayed in the list.

3 **Select a color to which you perform color replacement from the list.**

4 **Specify the replacement color.**

Change gradation in the color image to the color mixed with multiple ink

When you change gradation to the color mixed with multiple ink, perform gradation replacement.

Important! • Fully read note of color replacement and set.

● Data creating method on Illustrator

1 Make the image color mode [CMYK].

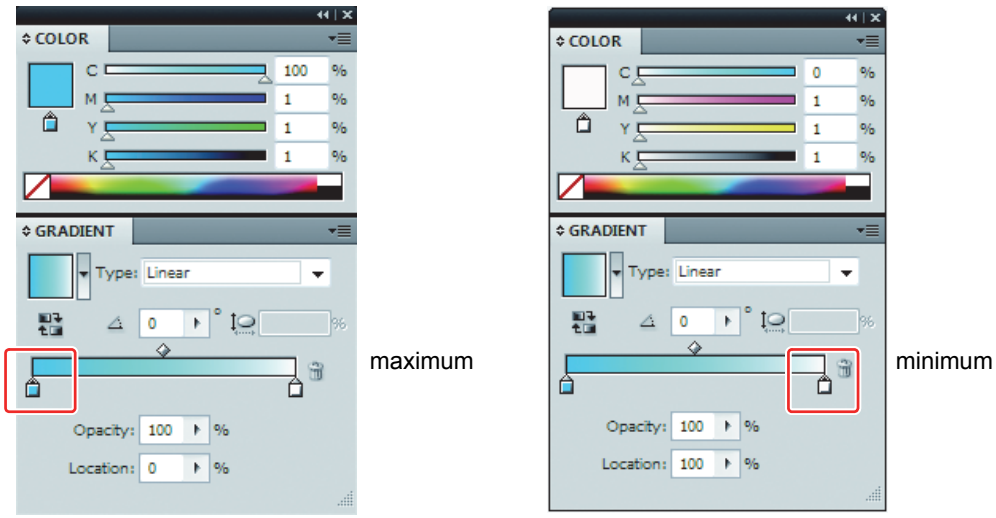
• Select [Document Color Mode]-[CMYK Color] from the [File] menu.

2 Create an object and select it.

3 Select [Gradation] from the [Window] menu.

• The [Gradation] window is displayed.

4 Specify the maximum/ minimum density settable in P.104 gradation.



5 After you create data, save it and read it into RasterLink.

● Color replacing method

1 **Select a job and switch to the color replacing screen.**

2 **Open the [Gradation] tab.**

- All gradation types used in the image are displayed in the list.

3 **Select a gradation to which you perform color replacement from the list.**

4 **Specify the maximum/ minimum density after the replacement.**

Output into the printer - Execution

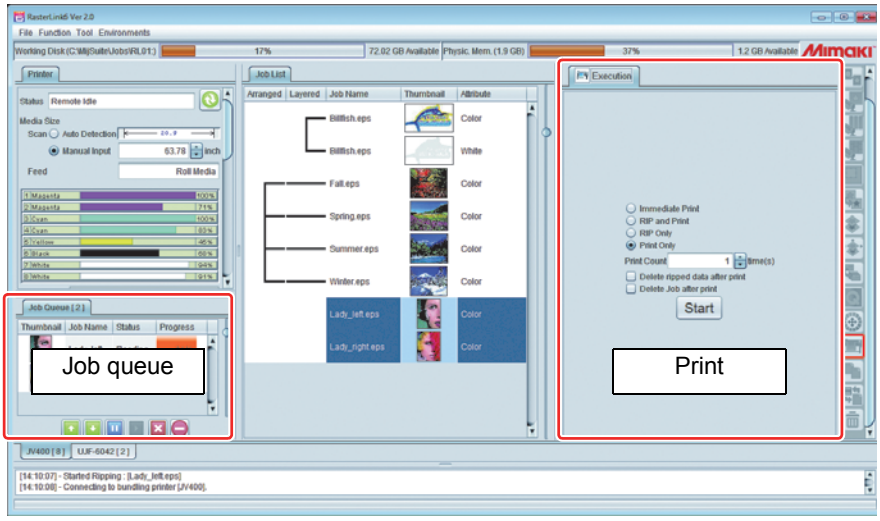
Function

You can perform the operations below in the [Execution] screen.

- Specifying and performing RIP and the outputting method of the selected job
- Specifying the number of outputs

- This chapter explains the job queue screen closely related to as well as the [Perform] screen.

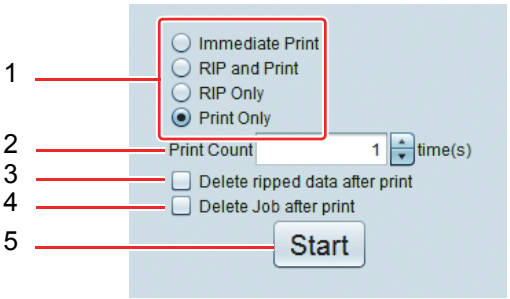
Screen configuration



Performing screen

The performing screen differs depending on the image job and print & cut job (☞P.119).

● Image job



1. Performing method

There are the performing method below:

Immediate Print : RIP and print are performed at the same time.
Depending on the job condition, even if you specify [RIP & Print]. It changes into [Print after RIP] and performs in some cases. (☞P.120 “Condition on which you cannot perform RIP & Print”)
If the original image is complicated, RIP process cannot be performed in time and the printing operation stops temporarily. In this case, use [Print after RIP].
When you perform RIP & print, the ripped data is not created.

RIP and Print : Prints after RIP has been completed. Ripped data is created.

RIP Only : Only RIP is performed and the ripped data is created. Print is not performed.

Print Only : Performs print only. If RIPped data has not been created (whether it is created or not, refer to [Job list status check]), prints after RIP.

2. Print Count

When you perform RIP & Print: It is the number of repetitions of RIP & Print.
Print after RIP print, Print: It is the number of repetitions of Prints. (For Print after RIP, RIP process is only once.)

3. Delete ripped data after print

When it is ON and the executing method is print after RIP or print only, deletes ripped data after printing.

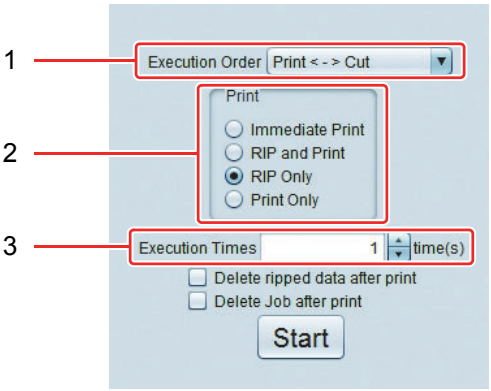
4. Delete Job after print

When it is ON and the executing method is RIP & print, print after RIP or print only, deletes job data including the read image.

5. Start

Performs the process specified in the Step 1.

● Print & cut job



1. Execution Order

Print <-> Cut : Prints and cuts.

Print : Prints only, without cutting.

Cut : Cuts only, without printing.

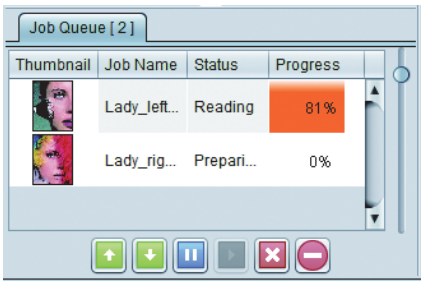
2. Print

The same as how to execute an image job.

3. Execution Times

Performs printing and cut by the specified number of times.

Job queue



Displays the progress status. In addition, you can perform the operations below against the job selected in this list.

Changes the processing order. First, terminates the job that is currently being processed and then performs this.

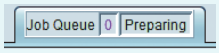
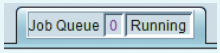
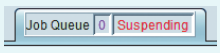
Aborts the job process.

Restarts the job process terminated once.

Aborts the process of the selected job.

Aborts the process of all jobs.
After executing, the job process suspends automatically. If you read the image and perform RIP/ print after executing, click to restart.

- The current job cue and auto execution status (☞P.147) are shown in the job queue tab.

			
Preparing: Displayed during start-up	Running: Status where image reading, RIP and printing are enabled	Suspending: Status where no reading, RIP or printing is carried out	Auto executing: Status where Auto Execution (☞P.147) has started.

Condition on which you cannot perform RIP & Print

On the conditions below, even if you specify RIP & Print, printing is performed after RIP automatically.

- Performed copy specification in general print.
- Imposed jobs
- Composed jobs
- Arbitrarily-positioned specification in tiling is ON.
- Step & repeat
- Print & Cut print job

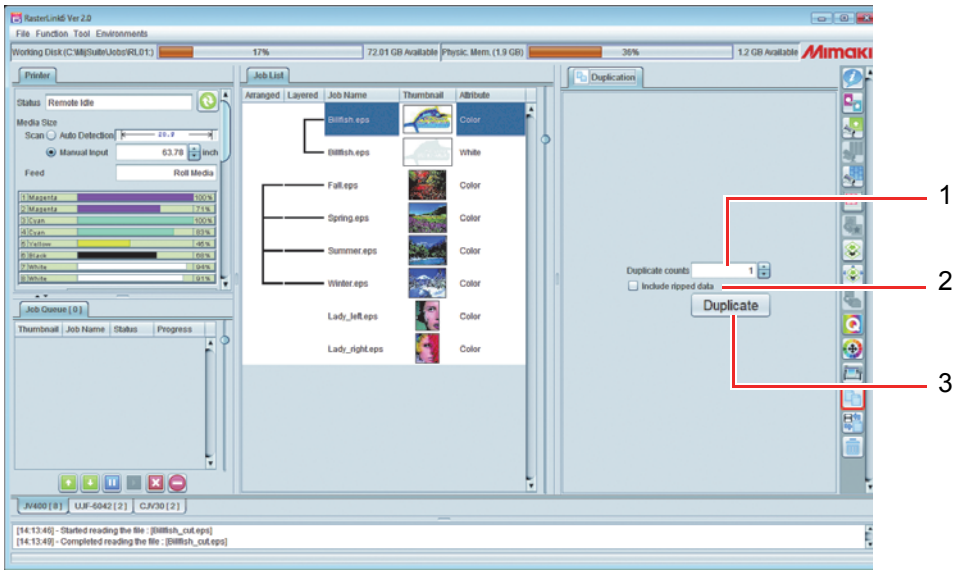
Duplicate the job - Duplication

Function

You can perform the operation in the [Duplication] screen.

- Duplicate the selected job.
  By using this function, if there is a base job, you do not have to read the same image again.
  In addition, the setting of the base job is also duplicated, you can create a job by changing some settings only without changing the original job.

Screen configuration



1. Duplicate counts

Specify the number of duplications of the job.

2. Include ripped data

When this is ON, ripped data is also duplicated.

3. Duplicate

Duplicates the job.

- When you duplicate the job, the job name becomes the same as the original job. It is recommended to change the job name in the [Job property] screen to recognize them. (For the setting method, refer to P.31.)

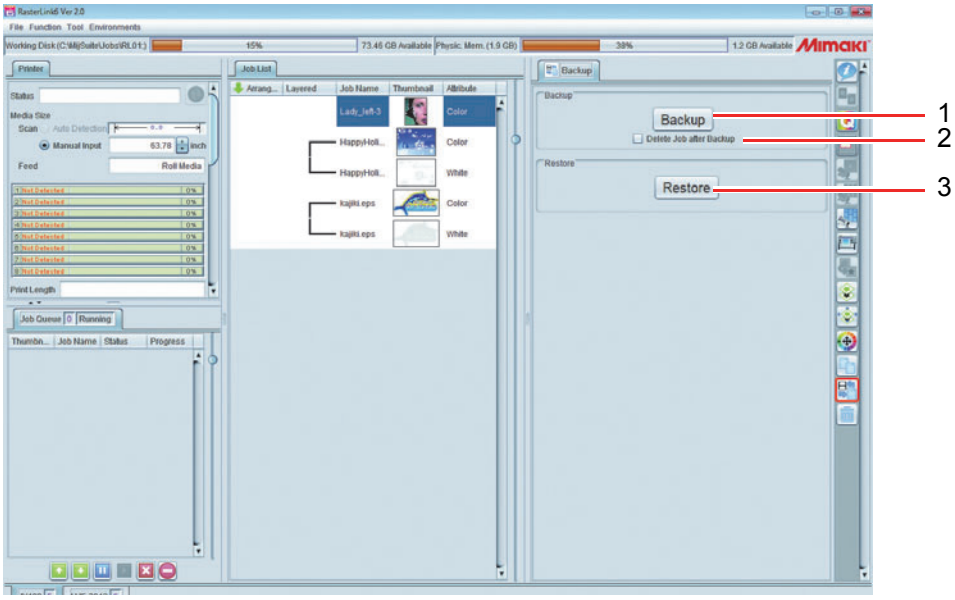
Save the job in the file - Backup
Read the saved job - Restore

Function

You can perform the operations below in the [Backup/ Restore] screen.

- Save the job in the file (backup file).
- Read the saved backup file and restore the job.

Screen configuration



1. Backup;

Save the selected job in the specified backup file.
When you select multiple jobs, these are saved in on backup file.

- The data below is saved in the backup file.
  Image, job setting information, device profile, inputting profile and various setting file
- The ripped data is not included in the backup file. Therefore, it is necessary to perform RIP again after restoring.

2. Delete Job after Backup

When this is ON, the job is deleted after backup.

3. Restore

Restore the job from the backup file.

- If the machine type in which backed up job is registered and the special color ink set that is set to that machine type are not registered in RasterLink, an error is displayed in the message area and you cannot restore it.
- If the device profile/ the input profile specified in the backup file are not installed, an error is displayed in the message area and you cannot restore it. In this case, the device profile/ the input profile in the backup file are saved in the folder below. (The detailed saving destination is displayed in the message area.) Terminate RasterLink once, start the profile manager and install the profile.
  Installation folder\Tmp
  After installation, restart RasterLink and restore it again.

Important!

- You cannot restore the backup file before RasterLinkPro5.

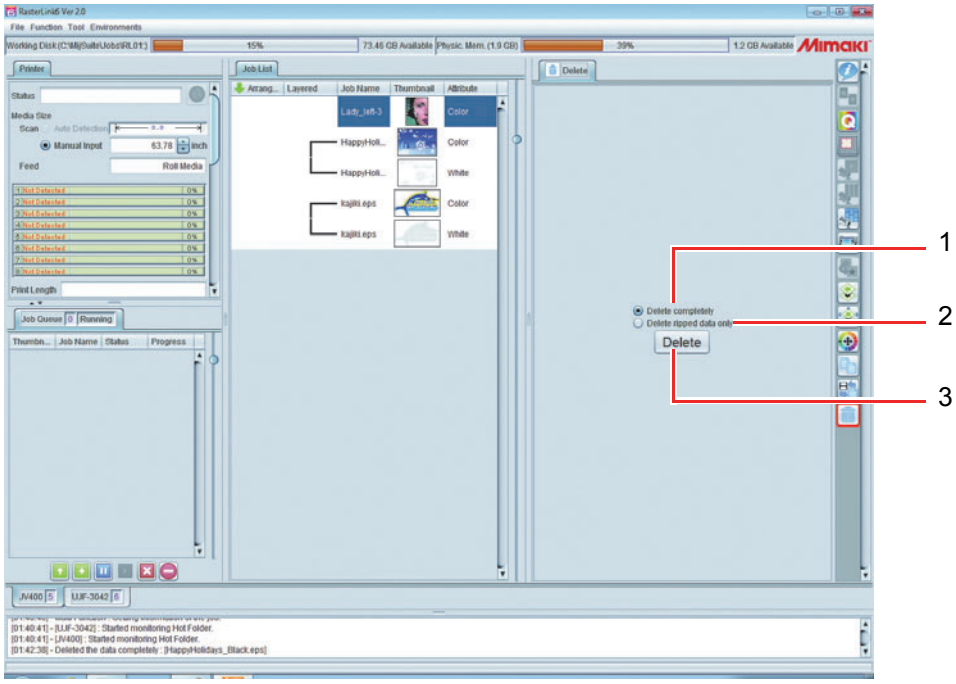
Deleting Jobs and ripped Data - Delete

Function

The following operations are carried out on the [Delete] screen:

- Deletion of selected jobs
- Deletion of RIP-ed data of selected jobs

Screen configuration



1. Delete completely

Delete all the data of jobs selected in the job list.

> Important!
>
> **Deletion is not possible in the following cases:**
>
> - One part only of a composed or arranged job group has been selected.
>
> In such a case, first cancel the composed or arrangement, then select the jobs you want to delete and delete them.
>
> If you want to delete an entire composed or arranged job group, select all the jobs in it.

2. Delete ripped data only

Delete ripped data that are present in the jobs you have selected in the job list.

3. Delete

Execute deletion with the conditions specified above.

Print & cut

Function

- Print & cut with the printer cutter such as CJV30.

Creating procedures of print & cut job

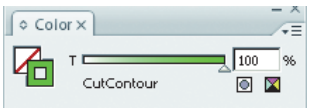
Creating print & cut data

File/ data format for print & cut

Files and data formats available for print & cut are as below:

File format	ps, eps, pdf
Object available for cut	Vector object (illustration object) Specify the following for the color of the line segments (paths) to be cut: Special color with “CutContour” added in front of its name • When you add the string after CutContuor, it is handled as another cut line with changed Cut condition. CutContour CutContourCut1 CutContourHalf } You can set the cutting condition separately.

When you use RasterLinkTools (P.157), you can create print & cut data easily on Adobe Illustrator/ CorelDRAW.



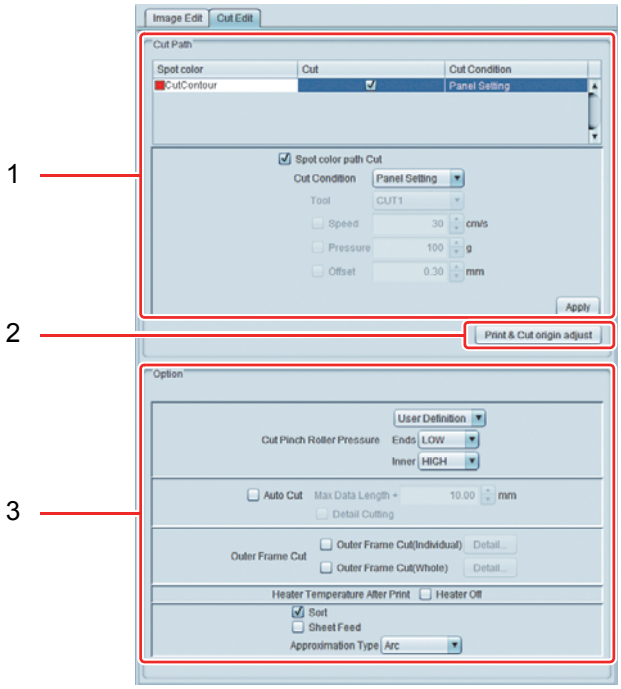
Puts the pass (line) whose special color name is “Cutcontour” around the illustration as the cutting line.

Reading print & cut data

When it is read into RasterLink, though it is one data file originally, it is read as two jobs of color and cut, and it becomes composed job automatically.
The icon indicating cut is displayed in the thumbnail of the cut job.

Editing

● Cut Edit screen



1. Cut Path

Specify how to cut the cutting data.

Special color list for cut	Displays special color for cut. You can specify the cutting condition each for the special color. After selecting special color to edit from this list, perform the setting below.
Spot color path Cut	When this is ON, the selected special color pass is cut.
Cut Condition	Specify the cutting condition.
Tool	Select the cutter. When you select HALF, it becomes dotted-line cut.
Speed	Set the cutting speed.
Pressure	Specify the pressure of the cutting blade.
Offset	Correct the center position of the cutting blade.
Apply	Applies the settings.

For the cutting condition, there is the proper amount depending on the media and the cutter. Refer to each user manual.

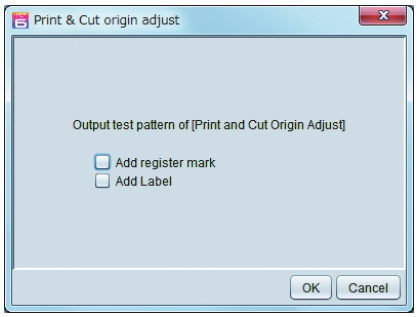
2. Print & Cut origin adjust (only CJV300, CJV150)

Prints and cuts an adjustment pattern to adjust the Print & Cut origin.

Important!

- Execute Print & Cut origin adjust after setting the print condition.
- If you change the resolution or path after executing Print & Cut origin adjust, you must execute Print & Cut origin adjust gain.
- After finishing executing Print & Cut of an adjustment pattern, the job for Print & Cut origin adjust is automatically deleted from the job list. However, if you clear data or an error occurs during the adjustment pattern Print & Cut process, delete the job for Print & Cut origin adjust manually.

Click [Print & Cut origin adjust] to display the dialog box on the right.



Add register mark When this option is ON, prints information about the resolution, number of paths, and waveform at the upper left of an adjustment pattern.

Add Labe When this option is ON, prints by adding registration marks.

[OK] Click this button to Print & Cut an adjustment pattern.

3. Option

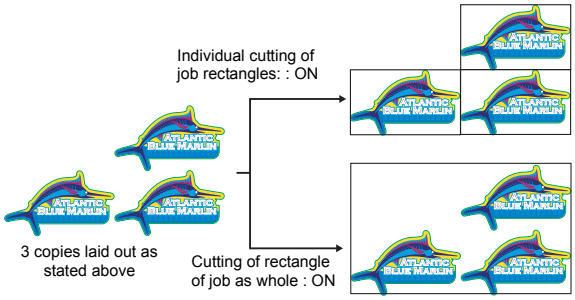
Cut Pinch Roller Pressure Specifies the cut pinch roller pressure.

Auto Cut When this option is ON, the media will be automatically cut after the Cut process is completed.

- Maximum data length+: Specifies the distance between the data end and the cut position.
- Cuts copies and continuous registration marks by line: When this option is ON, each time a line is printed, cuts the copies of an image laid out in that line.

Outer Frame Cut Besides cuts the cutting data inside data, selects whether to cut image borderline and rectangle of job as whole.

Click [Detail…] and you can set cut conditions.



Heater Temperature After Print When this option is ON, turns all heaters OFF when cutting.

- Depending on the media, if the heater temperature is high, the cutting accuracy decreases due to distortion. In such a case, turn this option ON.

Sort When this option is ON, changes the order of cutting properly so as to shorten the time for cutting.

Sheet Feed For Leaf media, feeds media before cutting to see if all shapes can be cut.

Approximation Type Selects how to cut curves.

- Straight Line: Cut into small lines that approximate to the curves. The cutting accuracy becomes low, but the cutting speed is high.
- Arc : Cut into small circles that approximate to the curves. The cutting speed is low, but the cutting quality improves.

- Check the adjustment pattern after Print & Cut and enter adjustment values for X and Y in the printer's input screen.

● Combination with other functions

The functions that you can use with print & cut is as below:

Function	Available for combination
Composition (*)	OK
Crop	NG
Tiling	NG
Step & Repeat	NG
Special plate	OK
Composition (**)	OK
Color replacement	OK

(*) Can only be carried out on Print & Cut jobs.

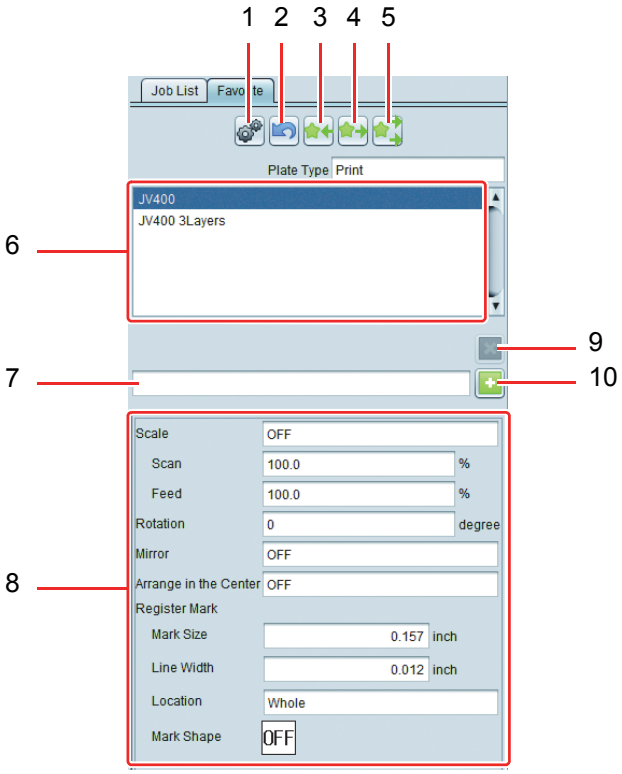
(**) Can only be carried out on a combination of Print & Cut and print jobs.

Outputting method of print & cut

Move to the performing screen and perform print & cut.
For performing print & cut, refer to P.125.

Use by naming various setting - Favorite

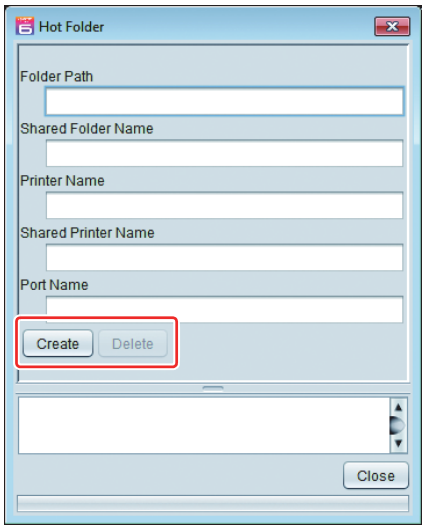
You can register various setting values into [Favorite] in RasterLink6. By calling registered Favorites, you can set the condition that you frequently use easily.



1. Hot folder setting

Creates or deletes the hot folder and the printer driver of the selected [Favorite setting].
When you spool data to the created hot folder or the printer driver, the setting value of [Favorite setting] is applied to the spooled job.

When you click the [Hot folder setting] icon, the [Hot Folder] screen on the right is displayed.
When you click the [Create] button, the hot folder and the printer driver are created.
If they have already been created, you can delete them with the [Delete] button.



Important!

- When you create the hot folder and the printer driver, start RasterLink6 with the administrator right.

2. Cancel save

Cancel the latest save.

3. Save

Saves the setting value of the screen that you are editing in [Favorite].

4. Application

Applies the setting value in the selected [Favorite] to the setting items of the screen that you are editing.

5. Applying all

Applies the setting value in the selected [Favorite] to the jobs on the screens that you are editing, as well as to the setting items of other screens.

6. Favorites setting list

The list of [Favorite] is displayed.
By default, the favorites with the same name as the registered printer is set. This setting can be edited.

7. Additional name

Input the name of [Favorite] to add.

8. Setting value

The setting items and values saved in the selected [Favorite] is displayed.

9. Delete

Delete the selected [Favorite].
When the hot folder and the printer driver are created, they are deleted at the same time.
You cannot delete the preset [Favorite] (same name as printer).

10. Add

Newly add [Favorite] with the setting value of job that being edited.

Creating Favorites

1 **Use the function icons to select functions for which you have a Favorite setting screen.**

2 **Enter in the empty column the name of the Favorite to be registered, then click the button.**

- The file will be added to the list.

Method for saving a Favorite

1 **Use the applicable function icon to open the screen that you want to set as a Favorite.**

2 **On the various editing screens, set the values to be saved.**

3 **Create the favorite on the Favorite setting screen, or select the Favorite from the list.**

4 **Click button.**

- The values saved will be displayed in the [Setting value] space.

Method for applying a Favorite to a job

1 **Use the applicable function item to open the screen you want to apply the Favorite to.**

2 **Select the Favorite you want to apply from the list in the Favorite setting screen.**

3 **Click button.**

- The values saved in the [Setting value] space will be set on the editing screens.

- If you want to simultaneously apply not only the items set on the screen you are editing, but also items set on other screens, click button.

Print the color chart

What is the color chart?

With the color chart function, you can create color example by changing color component in a certain value focusing around the specified color (Base color).
For example, if the printed color is a little different from the target color you can search the target color by creating the color chart focusing around that color.

Color chart that can be created

Color chart type

You can create three charts depending on the color component to change.

● **CMYK color chart**
Create the chart image (PDF format) and job of CMYK color mode.

[Usage]

Based on CMYK color chart, change the image color of CMYK color mode before spooling with design software and output the target color.

● **RGB color chart**
Create the chart image and job of RGB color mode.

[Usage]

Based on RGB color chart, change the image color of RGB color mode before spooling with design software and output the target color.

● **Special color chart**
Create the job of the chart by specifying output ink density.

[Usage]

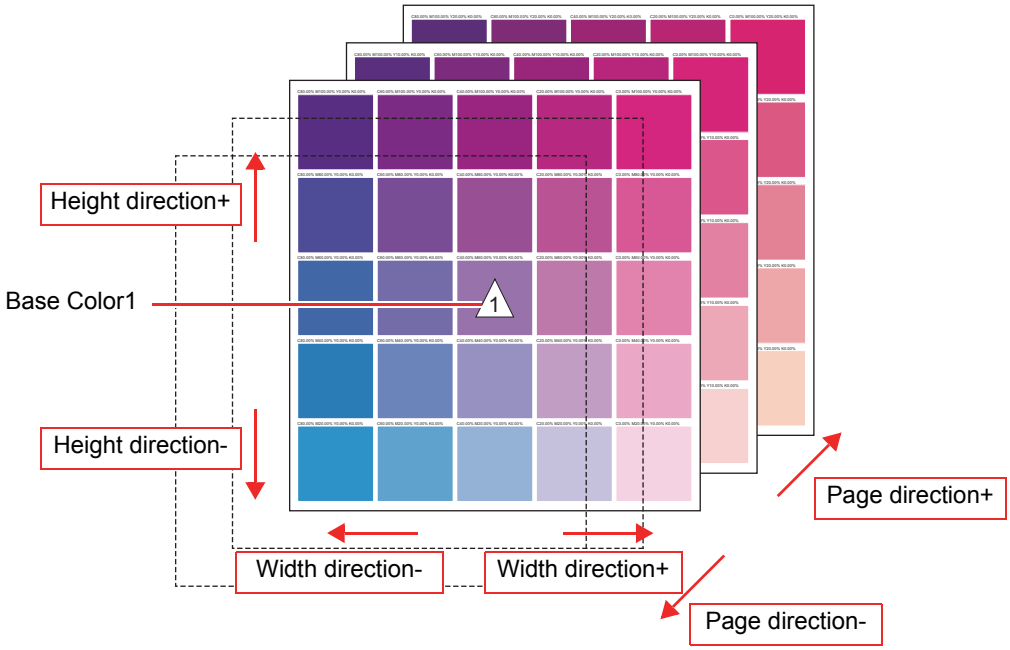
Based on the chart, specify the ink density as the color after replacement in color replacement (☞P.104). You can use this especially to check colors when you perform color replacement using special colors such as white/ silver.

Color chart pattern

Depending on the number of basic points, you can create three pattern charts.

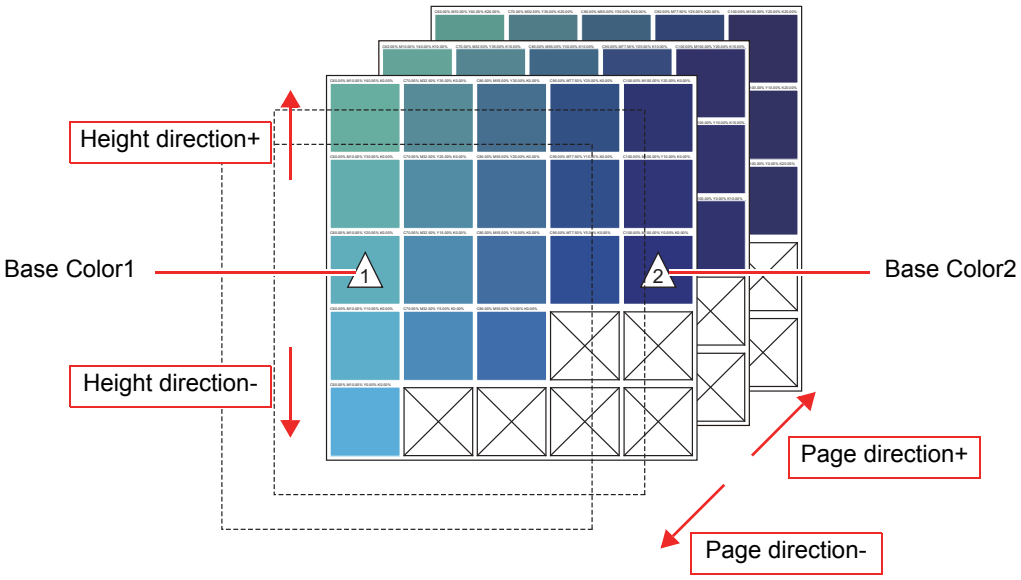
For one Base color

Specify color change of three directions of height direction/ width direction/ page direction focusing around the Base color.



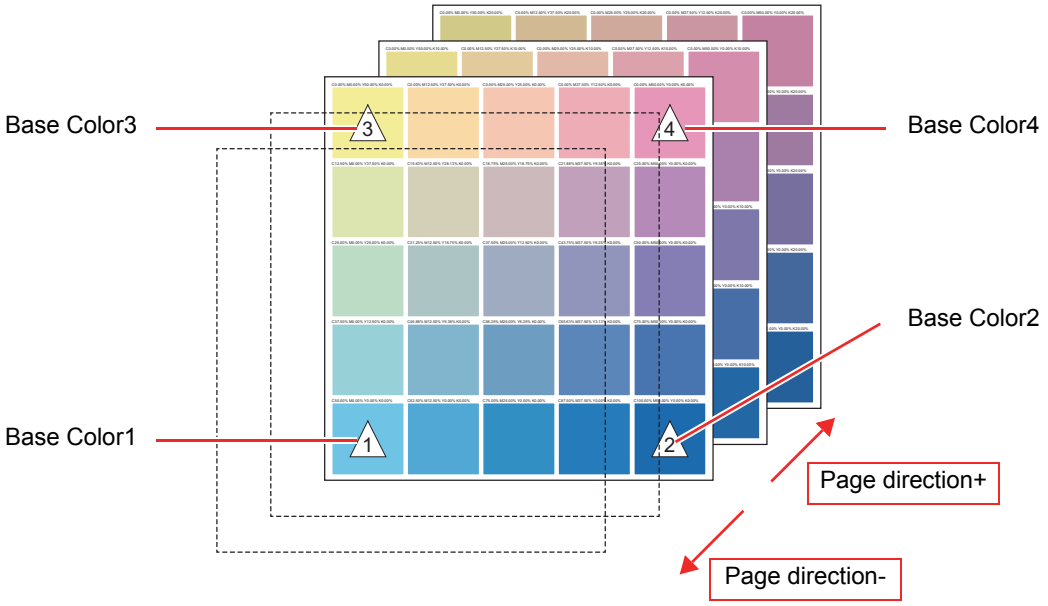
For two Base colors

Specify color change of two directions of width direction/ page direction by making color change between two Base colors be height direction.



For four Base colors

For four Base colors specify color change of page direction by making color change among four Base colors be width direction/ height direction.



RGB/CMYK color chart

The setting method for CMYK and RGB color chart is same.

Displaying method of setting screen

For CMYK color chart

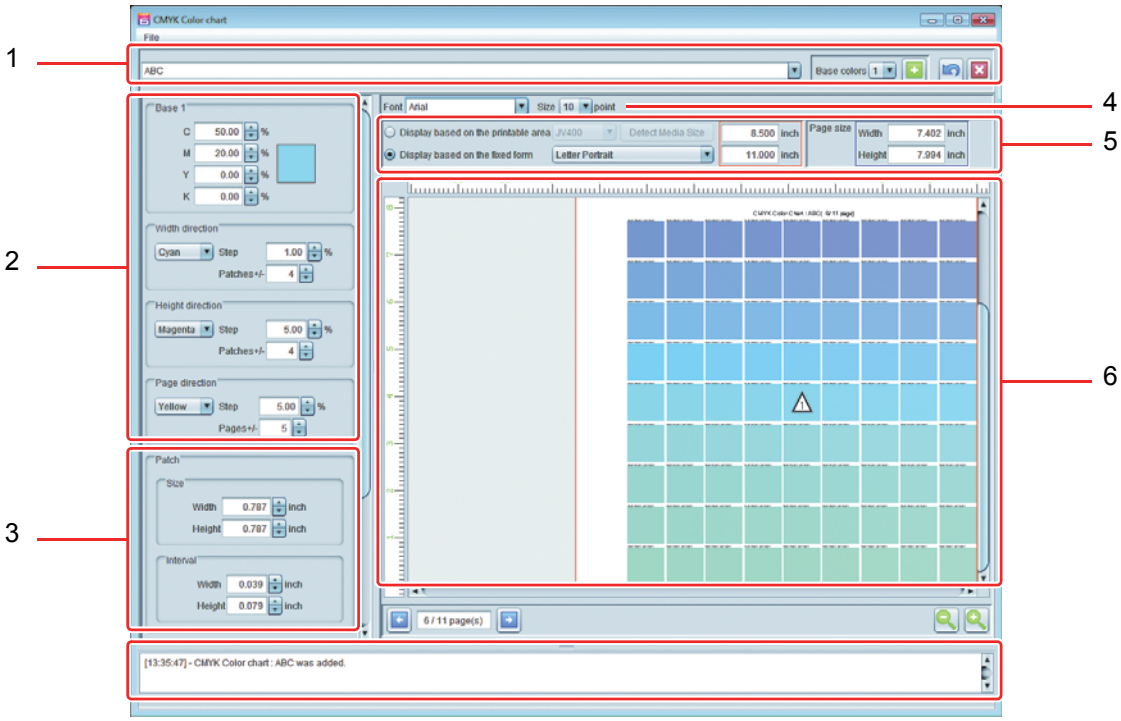
Select [CMYK color chart] from the [Tool] menu.

For RGB color chart

Select [RGB color chart] from the [Tool] menu.

Screen

Screen configuration



1. Screen for adding/ selecting/ deleting chart

Inputting/ selecting chart name combo box Select the existing chart setting file, or, enter the chart name to create new chart setting file.

Number of Base colors Set the number of Base colors.
For the number of Base colors, refer to P.133.

Adding chart Create the Base color chart setting file of the number of Base colors combo box with the entering chart name/ selecting combo box. If there is the same name chart setting file exists, check whether it is overwritten. If it is overwritten, each value becomes the default.

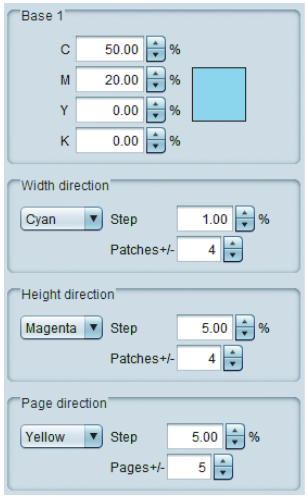
Restore Restore the setting of the currently selected chart setting file to the value at selection.

Deleting chart Delete the currently selected chart setting file.

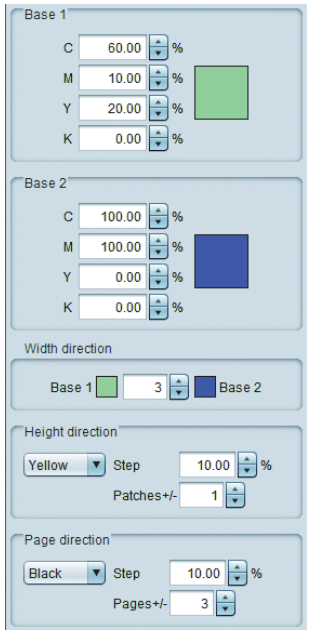
2. Setting screen: color setting

The setting screen differs depending on the number of Base colors.

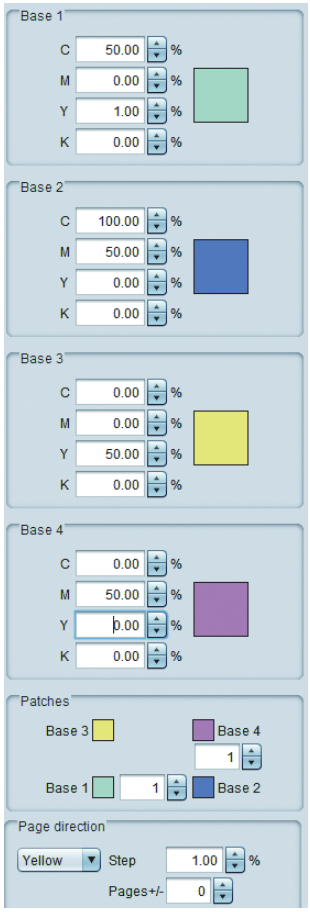
For one Base color



For two Base colors

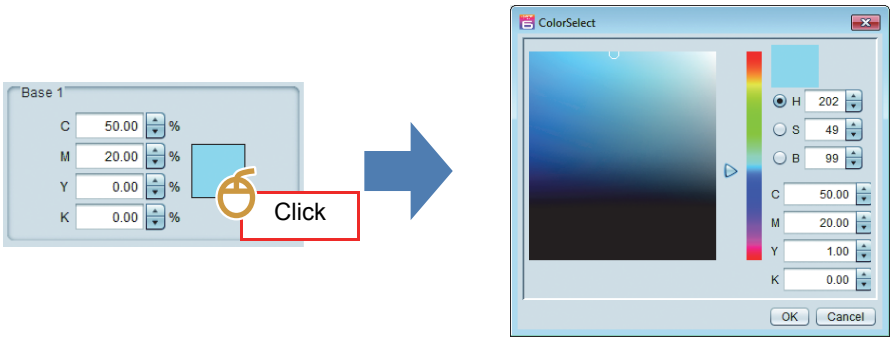


For four Base colors



Base color

Set the Base color.
When you click the color rectangle, the color selection dialog is displayed.



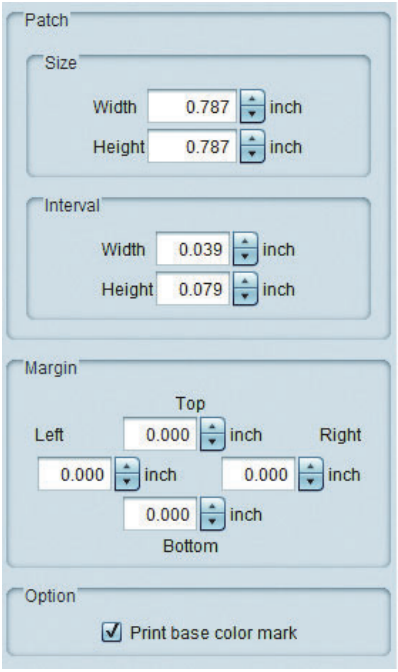
Width direction
Height direction

Focusing around the Base color, specify one color component to change in each direction, the density increment by patch and the number of patches of that direction.

Page direction

Focusing around the Base color, specify one color component to change in the page direction, the density increment by page and the number of pages before/ after of it.

3. Setting screen layout



Patch Specify one color patch size and space size between patches.

Margin Specify the spaces from top/ bottom/ right/ left of the page.

Print base color mark Specify whether you put △ mark on the Base color at print.
(On preview, whether this is ON or OFF, the Base color mark is displayed.)

4. Font

Specify the font of the character to use in the color chart and the title size of each page.

5. Preview display area setting

Set the area displayed on the preview screen.

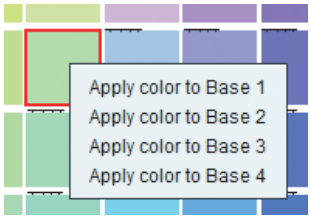
Display based on the printable area : Gain the media size of the selected printer and display that area as the valid area.

Display based on the fixed form : Display the selected fixed size and the direction as the valid area.

Important!

- The area specified here is display area on the preview, and it differs from the actual page size. The actual page size is [Page size] surrounded with blue.

6. Chart preview



When you click the patch, that patch is selected and each density of color component is displayed in the message area.
In addition, when you right-click it, the pop-up menu is displayed and you can set the selected color as the Base color.

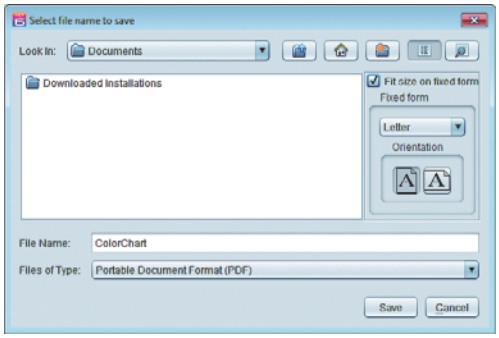
7. Changing pages

When you specify the increment of colors in the page direction, you can change pages.

Creating PDF format file

You can save the color chart of the PDF format file based on the setting.

(1) Select [Create PDF…] from the [File] menu of the color chart.
(2) The “Select file name to save” dialog is displayed.

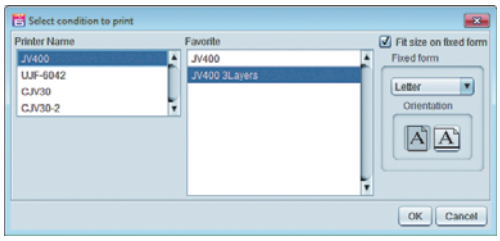


(3)If you fit the page with the fixed-size paper, check the checkbox and specify the fixed-form size paper.
(4)Enter the file name and press [Save].
(5)It is saved as a PDF format file.

Creating a job

Create the color chart as the PDF format image based on the setting and create a job by reading it automatically.

(1) Select [Create Job] from the [File] menu of the color chart.
(2) The “Select condition to print” dialog is displayed.



• Select the printer to output and the favorites setting matching the printing conditions etc.
If you fit the page with the fixed-size paper, check the checkbox and specify the fixed-form size paper.

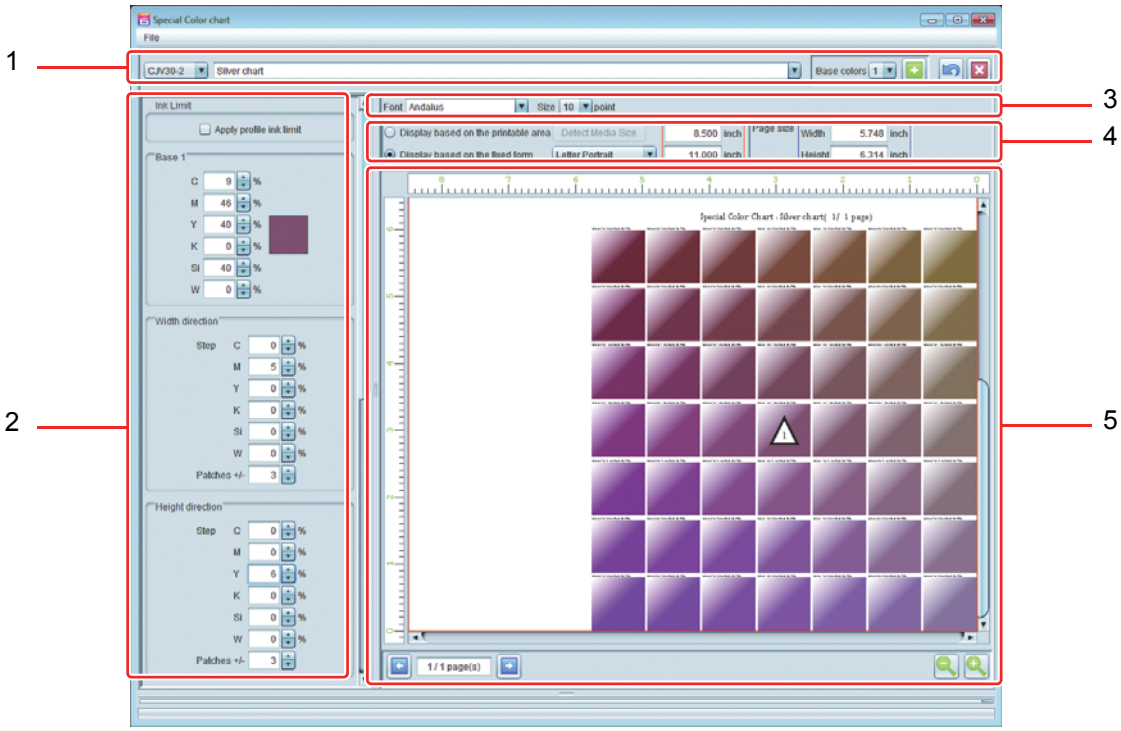
(3) Press the [OK] button.
(4) When you display the main screen, the job of chart file name is created in the selected printer’s job list.
• The handling way is the same as the normal multiple pages job.

Special color chart

Setting screen displaying method

Select [Special color chart] from the [Tool] menu.

Screen



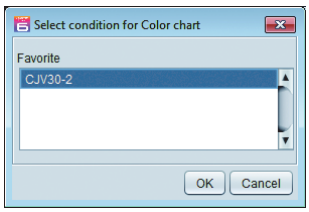
1. Screen to add/ select delete chart

Printer selecting combo box As the special color chart depends on the printer ink set, select the target printer.

Chart name inputting/ selecting combo box Input the chart name to select the existing chart setting file or to create new chart setting file.

Based colors Set the number of Base colors.
For the number of Base colors, refer to P.133.

Adding chart Create the chart setting file of the Base color of the Base color number combo box with the chart name inputting/ selecting combo box. If Create the Base color chart setting file of the number of Base colors combo box with the entering chart name/ selecting combo box. If there is the same name chart setting file exists, check whether it is overwritten. If it is overwritten, each value becomes the default.
When you press this, [Select condition for Color chart] dialog is displayed.



To determine the ink set to use, select the Favorites setting.

Restore

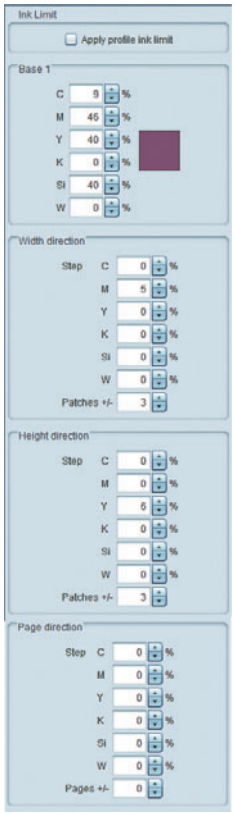
Restore the setting of the currently selected chart setting file to the value at selection.

Deleting chart

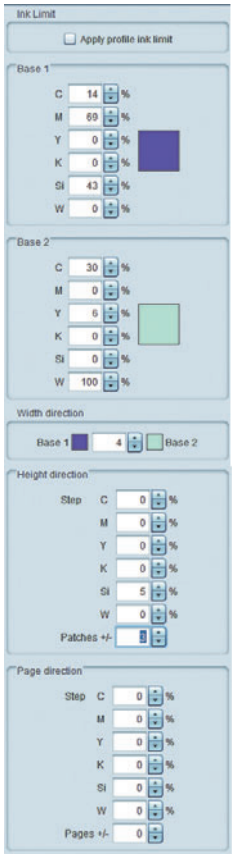
Delete the currently selected chart setting file.

2. Setting screen

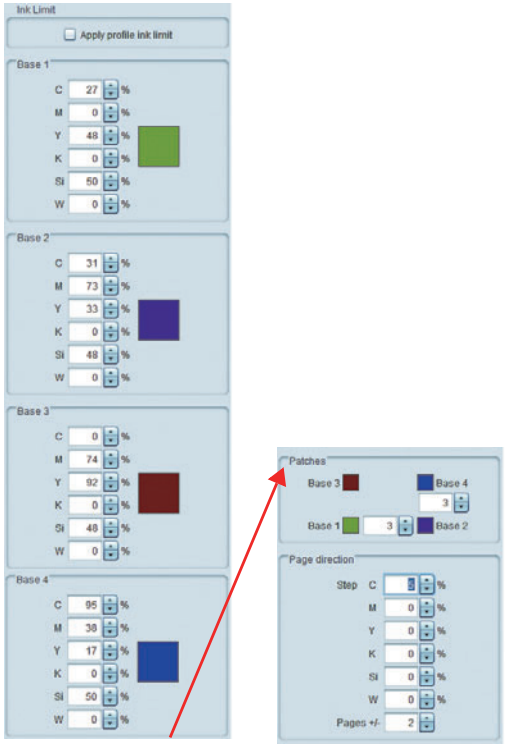
The setting screen differs depending on the number of Base colors.



For one Base color



For two Base colors



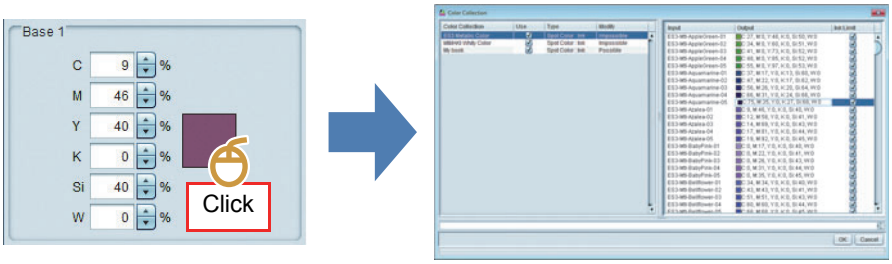
For four Base colors

Apply profile ink limit When this is ON, the ink limit of the profile is used. It can reduce ink spilling out.

> Important! • When there are three slots or more of ink of the special ink set, “Apply profile ink limit” becomes always ON and you cannot operate.

Base color

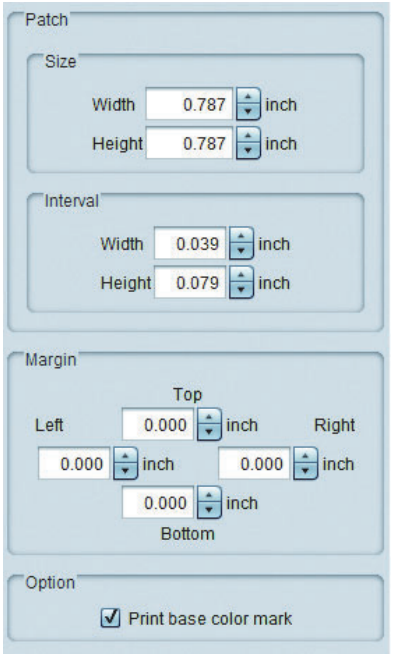
Set the ink density that acts as the Base color.
When you click the color rectangle, the “Color Collection” dialog is displayed.
Select the ink color density that acts as the Base color.



Width direction
Height direction
Focusing around the Base color, specify one color component to change in each direction, the density increment by patch and the number of patches of that direction.

Page direction
Focusing around the Base color, specify one color component to change in the page direction, the density increment by page and the number of pages before/ after of it.

3. Setting screen layout



Patch
Specify one color patch size and space size between patches.

Margin
Specify the spaces from top/ bottom/ right/ left of the page.

Print base color mark
Specify whether you put △ mark on the Base color at print.
(On preview, whether this is ON or OFF, the Base color mark is displayed.)

4. Font

Specify the font of the character to use in the color chart and the title size of each page.

5. Preview display area setting

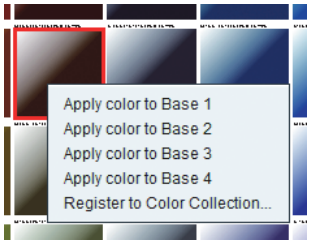
Set the area displayed on the preview screen.

Display based on the printable area : Gain the media size of the selected printer and display that area as the valid area.

Display based on the fixed form : Display the selected fixed size and the direction as the valid area.

Important!
- The area specified here is display area on the preview, and it differs from the actual page size. The actual page size is [Page size] surrounded with blue.

6. Chart preview



When you click the patch, that patch is selected and each density of color component is displayed in the message area.
In addition, when you right-click it, the pop-up menu is displayed.

Apply color to base : You can set the selected color for the Base color.

Register to Color Collection : Register the selected color in the color collection.

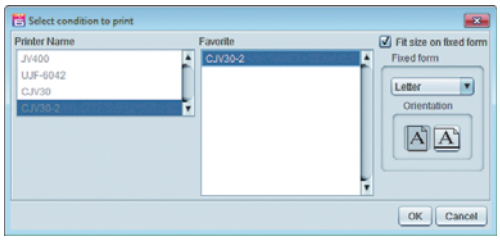
Creating a job

Create the color chart as the PDF format image based on the setting and create a job by reading it automatically.

(1) Select [Create Job] from the [File] menu of the color chart.

(2) The “Select condition to print” dialog is displayed.

- The output printer is fixed to the one specified in the special color chart.
- Select the favorites setting whose printing condition etc. matches.
  When you fit the page to the fixed paper size, specify the fixed paper size by checking this.



(3) Press the [OK] button.

(4) When you display the main screen, the job of chart file name is created in the selected printer’s job list.

- The handling way is the same as the normal multiple pages job.
- Ink density setting is performed on the color replacement screen.

Color collection

What is the color collection?

The color collection is the outline of replacement information of color replacement (☞P.104).
You can create the collection file each for the usage/ original color information before replacement and after replacement.

Color collection type

You can create the color collection file of the conditions below by combining original color information before replacement and after replacement.

- **Spot color : ink**

  Replace spot color with ink color.

- **Spot color : Lab**

  Replace spot color with Lab value.

- **CMYK : ink**

  Replace the color in the CMYK color mode image with ink color.

- **CMYK : Lab**

  Replace the color in the CMYK color mode image with Lab value.

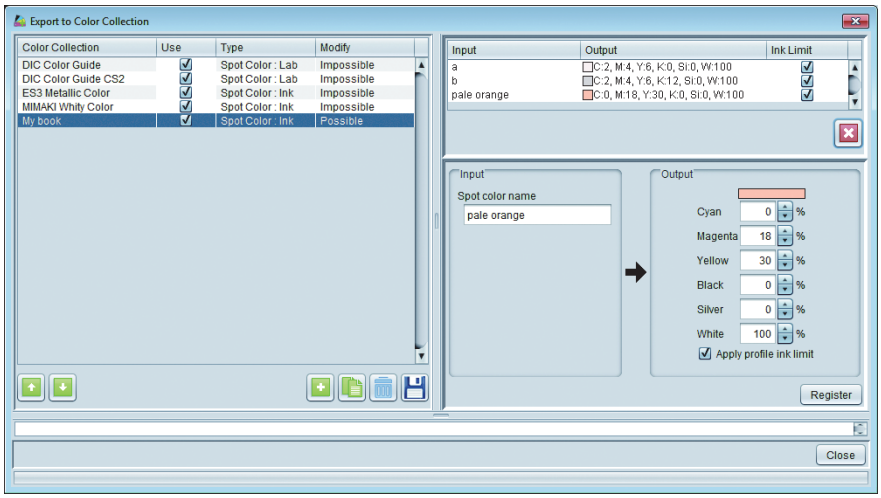
- **Gradation**

  Save replacement information of gradation color replacement.

Creating color collection file and registering color

Displaying color collection screen
Open [Color Collection…] from the [Tool] menu.
Or, press from the color replacement screen.

Screen



● Color collection list

Display the color collection list currently available for the printer displayed in the main window.

About each row

Color Collection	Displays the color collection file name.
Use	When this is ION, if there is the color information in the read image as in the color collection, performs color replacement with its output data automatically.
Type	Displays color collection type (☞P.143).
Modify	Displays whether you can add/ delete/ change of color.

About pre-set color collection
The color collection below is preset.

- **DIC Color Guide / DIC Color Guide CS2**
  Spot color for DIC color guide: This is the color collection for Lab.
  Depending on the Adobe Illustrator version, it is corresponding to the swatch library of DIC color guide as below:

Adobe Illustrator Version	Color collection name
8 ~ CS	DIC Color Guide
CS2 ~ CS5	DIC Color Guide CS2

- In the initial settings, if the same color information of the loaded image exists in color collection, color replacement is not designed to be automatically performed for the output data. If you want to perform automatic color replacement, set [Use] (☞P.144) to ON. The manual CD contains the DIC Color Guide chart (PDF). Use this chart as needed.
- **RasterLink**
  Spot color capable of color replacement as white ink only or silver ink only: This is the color collection of ink. The swatch file contains "CutContour".
- **Mimaki Whity Color**
  Mimaki's own spot color using white ink: This is the color collection of ink.
  You can use when you use white in the special color ink set.
- **ES3 Metallic Color**
  Mimaki's own spot color using silver ink of ES3 ink: This is the color collection of ink.
  You can use when the ink set is ES3 and when you use silver in the special color ink set.
- **SS21 Metallic Color / SS21 Metallic Color (No Silver)**
  Mimaki's own spot color using silver ink of SS21: This is the color collection of ink.
  You can use when the ink set is SS21 and when you use silver in the special color ink set.

About using Mimaki Whity Color/ ES3Metallic Color/ SS21 Metallic Color
The swatch file for Adobe Illustrator and the color chart (PDF) are saved in the directory below in the installation folder. You can perform color replacement of white/ silver easily using these files.
Swatch file: Installation folder\Swatch\Illustrator
Color chart PDF: Installation folder\Colorchart\Default

Color collection operation screen

(Changing applying order of color collection)	When the color collection [Use] is ON and if multiple collections have the color with same condition, collection information at the top of the list is applied. With the [↑] [↓] button, you can change the collection order.
	Adds new color collection. When pressed, the [Add] dialog is added. Enter the color collection type and name.
	Copy the collection currently selected in the color collection list. When pressed, the [Duplicate] dialog is displayed. Enter new collection name.
	Deletes the collection currently selected in the color collection list. You cannot delete the one whose [Modify] is "Impossible".
	Creates the swatch file for Adobe Illustrator/ CorelDRAW for the collection currently selected in the color collection list. You cannot create in the condition below: • The one whose [Modify] is "Impossible" • The one whose type is "Gradation"

Color list
Displays the list of colors inside the collection selected in the color collection list.
When you delete the selected color, press [x].

Inputting color value
Adds and edits the color information inside the collection selected in the color collection list.
For the settable value, refer to the color replacement screen (☞P.104).

Perform color replacement using the color collection

There are two methods for color replacement using the color collection.

Always apply the color collection

When you always want to perform color replacement with the setting of the specific color collection file for the read image, set as below.

(1) Open the color collection screen.
(2) Select the color collection file that you always want to use and check the checkbox of [Use].
(3) Close the color collection screen.

This is applied when you read an image newly.

Perform color replacement individually on the color replacement screen

On the color replacement screen, you can refer to the color collection. For details, refer to the color replacement function (☞P.104).

Auto Exceution

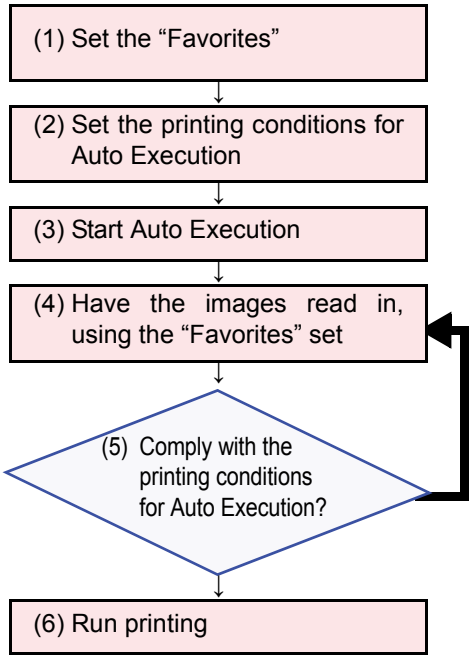
What is Auto Execution?

Auto Execution is a function that automatically starts RIP and executes outputting when images that comply with the conditions have been read in.
It is convenient when settings that are to be regularly used have been decided on.

Important!
- The following cannot be carried out with auto printing:
  Composition, Tiling, Step & Repeat, Jig Print (only flat-bet printer), Mono color replacement

Flow of Auto Execution

Auto Execution is carried out according to the flow below.



Set as “Favorites” the items you want to use for the images that are to be printed via auto execution.

Set what conditions printing is to start with.

Start Auto Execution.

Have the images read in to the hot folder or driver with the same name as the “Favorites” set in (1).

Accumulate jobs until Auto Execution printing conditions set in (2) are complied with.

When the printing conditions are complied with, run printing.

(1) Setting the “Favorites”

Set the “Favorites”. The conditions that are set for the various jobs in Auto Execution depend on the hot folder and driver associated with the “Favorites” that are used when having images read in, and on the “Favorite settings” in the file selection dialog box.
For details of the “Favorites”, refer to ☞P.129.

Important!
The Favorite settings that are applied to jobs are the following:
- •General Print
  In the case of color jobs : Scale, Mirror, Deskew (only flat-bet printer)
  In the case of Print & Cut jobs : Scale, Mirror, Cut Condition, Register Mark
- •Quality
  All the parameters set for Favorites

The settings for the color collection (☞P.143) will be applied for the color changing settings.

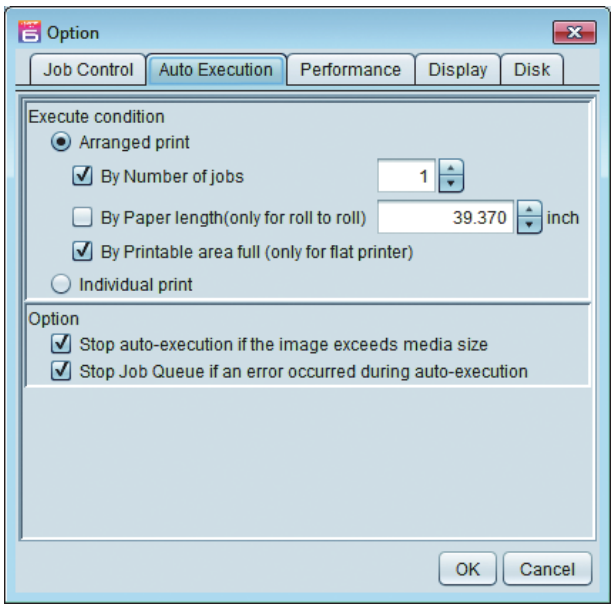
(2)Setting the conditions for Auto Execution

Set the conditions for start of printing during Auto Execution.

● Displaying the setting screen

Select [Enviroments]-[Oprion...] from the menu. The Option dialog box will be displayed.

● Setting contents



1. Execute condition

Arranged print — Jobs will be accumulated until any one of the conditions below is complied with, then the jobs will be arranged and printed with minimum area (☞P.36).

- **By Number of jobs** — If this is activated, printing will be executed at the moment when the specified number of jobs has been read in.
- **By Paper length (omly for roll to roll)** — When this is activated and the printer is a Roll to Roll printer, printing will be started when the jobs read in have been arranged with minimum area and reach a specified length. For the specific conditions, refer to P.150.
- **By Printable area full (only for flat printer)** — When this is activated and the printer is a flat-bed printer, printing will be started when the jobs read in have been arranged with minimum area and protrude from the print area set in the Favorites.

Individual print — RIP and printing are carried out as soon as the images are read in.

Important!

- If [Arranged print] is activated, RIP will be started immediately after the images are read in.
- If [Arranged print] is activated and [By Paper length] and [By Number of jobs] are both deactivated, only IP will be carried out – printing will not be carried out. Stop Auto Execution and print via manual operation, using the execution screen.
- The values for [Scan margin], [Feed margin] and [Arrange in the Center] that are currently set on the arrangement screen (☞P.35) will be applied.
- Some of the images will be rotated automatically, depending on the individual image sizes.
- Where multiple Favorites are present on the same printer, ahead of output, arrangement will be carried out on each favorite that was used when the images were read in.
- In the case of a print cutter, ahead of output, arrangement will be carried out on each print job and each print-and-cut job.
- Editing and similar operations cannot be carried out on jobs with “Awaiting printing” status (jobs with sky-blue background color). To edit such jobs, stop Auto Execution.

2. Option

Stop auto-execution if the image exceeds media size

If the images read in exceed the printable range (the media width in the case of a roll-to-roll printer, the print area setting specified for Favorites in the case of a flat-bed printer), Auto Execution is stopped.

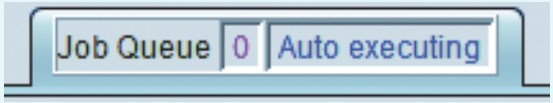
Stop Job Queue if an error occurred during auto-execution

If an error occurs, the job queue is stopped. Accordingly, the subsequent image read-in, RIP and print processing are also stopped. Check out the error, then click the restart button on the job queue screen (P.120.

(3) Restarting Auto Execution

Select [Enviroments]-[Auto Exceution]-[Start] from the menu.

- During Auto Execution, [Auto executing] will be displayed in the job queue (P.120) tab.



- To stop Auto Execution, proceed as follows:
  Select [Enviroments]-[Auto Exceution]-[Stop from the menu.

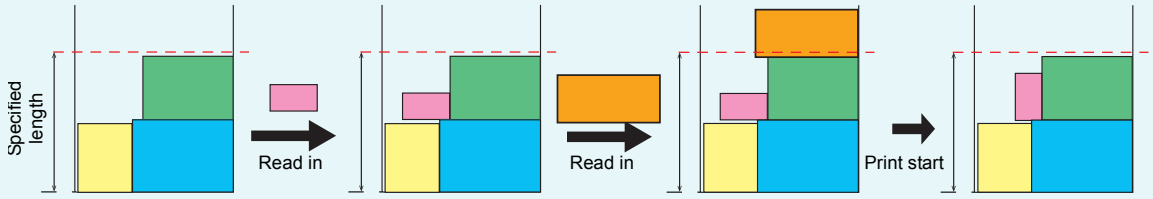
(4) Having images read in using the Favorites you have set

Have images read in using the Favorites you set in (1). For the method of specifying favorites for image read-in, refer to “Read an image in RasterLink6” on P.19.

(5)Are the printing conditions for Auto Execution complied with?

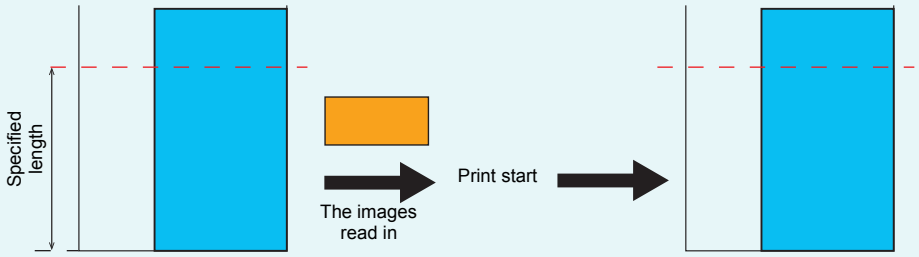
Accumulate jobs until the printing conditions set in (2) are complied with.

- If you have selected [Arranged print] for the printing conditions and activated [By Paper length (only for roll to roll)], the conditions for print start will be as below.



The images read in will be redeployed with minimum area.
If the specified length is exceeded as a result, only those images that do not exceed the specified length will be printed.

Example : The first image already exceeds the specified length



If the first image already exceeds the specified length, printing of the first image will start when the second image is read in.
The second image will be printed next time.

(6) Printing

Execute printing.

Important!

- [Delete ripped data after print] and [Delete Job after print] on the Execution screen (P.118) will be applied as the post-printing conditions.
- To cancel the RIP and printing, execute stopping of the job queue (P.120).
  Stopping Auto Execution will not stop the RIP and printing.

Menu bar

[File]

[Open]

Selects the image to print and reads it. For details, refer to P.19.

[Restore]

Selects the backup job file and reads it. For details, refer to P.122.

[Exit]

Terminates RasterLink6.

[Function]

The [Function] menu is the one that displays the function icons (☞P.28) as the menu.

- You can make the [Function] menu hidden with the [Function icon setting] (☞P.155).
- In the [Function] menu, the function hidden in the [Function icon setting] is also displayed.

[Tool]

[RGB Color Chart]

Starts the RGB color chart creating function. For details, refer to P.132.

[CMYK Color Chart]

Starts the CMYK color chart creating function. For details, refer to P.132.

[Special Color Chart]

Starts the special color chart creating function. For details, refer to P.132.

[Color Collection]

Starts color collection. For details, refer to P.143.

[Environments]

[Auto Exceution]

Auto Execution is a function whereby RIP is started and printing executed automatically when images are read in, provided that they comply with the conditions.
For details, refer to P.147.

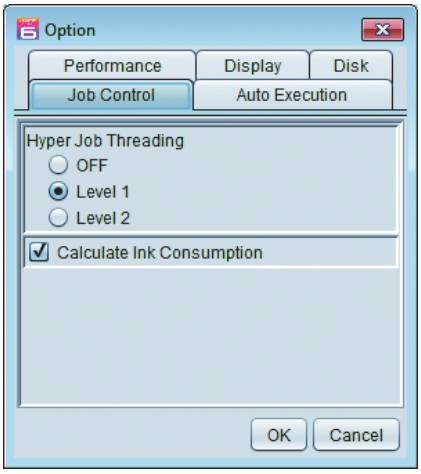
● [Auto Exceution]-[Start]
Start Auto Execution.

● [Auto Exceution]-[Stop]
Stop Auto Execution.

[Option...]

Opens the option screen and performs various settings.
The one whose setting is changed becomes valid after restarting RasterLink6.

● [Job Control]

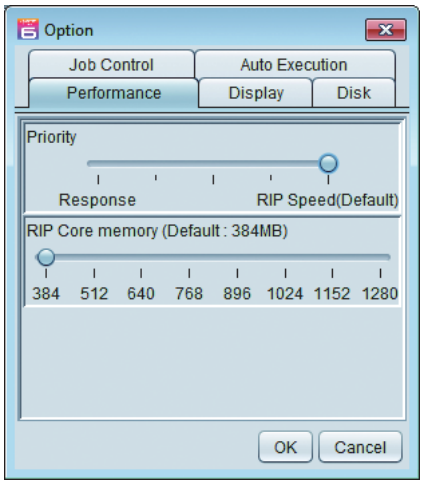


Hyper Job Threading
Specifies the method performed in parallel when you perform multiple jobs in parallel for one printer.
The changed setting becomes valid from the job that is executed after change.

OFF	Does not perform jobs in parallel. The spooling process, the RIP process and printing process are performed in sequence.
Lebel 1	Performs the RIP process and printing process in parallel. Maximum of two jobs are performed in parallel.
Lebel 2	The spooling process, the RIP process and printing process are performed in parallel. Maximum of three jobs are performed in parallel.

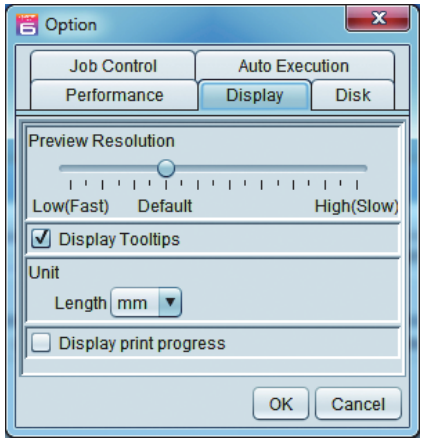
Calculate Ink Comsumption
When this is ON, calculates rough ink consumption and displays it on the job property screen (☞P.29).

[Perfomance]



Priority
If the operation response lowers much during RIP, it will be improved by making the setting to [Response]. However, as the RIP speed becomes slower, use it with the default setting if there is no problem.

[Display]



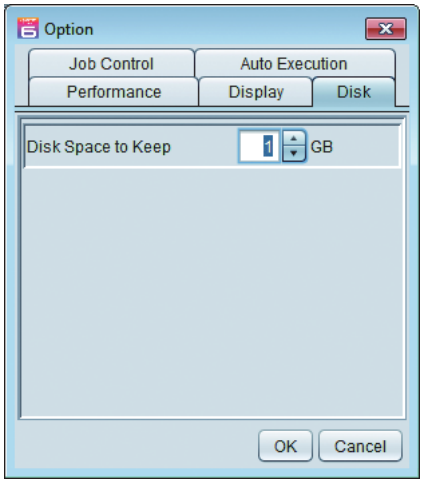
Preview Resolution
Specifies the resolution of the preview image created at spooling.

Display Tooltips
When this is ON, simple explanation is displayed for the item with mouse pointer.

Unit
Sets the unit of length (mm, inch).

Display print progress
With printers that have print status display capability, a [Print progress] screen (☞P.17) will be displayed during printing when this has been activated.

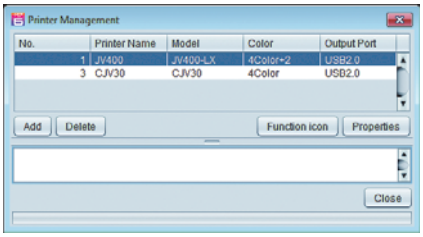
[Disk]



Disk Space to Keep
Sets the minimum amount of space of hard disk including the work folder.
If the space becomes less than the setting value during executing the job, the executing operation stops.

[Printer Management...]

Opens the printer management screen and adds/ deletes/ changes the setting of the printer.



Printer List
Displays the registered printers in the list.

Add
Displays the [Printer setting] screen to add a printer.

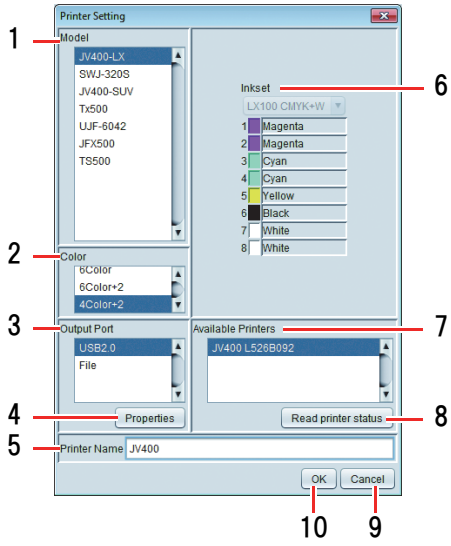
Delete
Deletes all settings/ jobs of the printer selected in the printer list.

Function icon
Displays the [Function icon setting] screen to change the function icon indication displayed on the right of the main window of the printer selected in the printer list.

Properties
Displays the [Printer setting] screen to check/ change the setting of the printer selected in the printer list.

● Printer setting screen

This is displayed when you click the [ADD] and the [Properties] button on the printer management screen.
Click the [Properties] button to display information on the printer selected in the printer list.



1. Model

Select the model name of the printer to register.

2. Color

Select the color of the printer to register.

3. Output Port

Select the output port type.

4. Properties of Output Port

Set the information to the output port.

5. Printer Name

Enter the name to distinguish it from other printer.

6. Inkset

Select the ink type set on the printer.

7. Available Printers

The connectable printer is displayed.

8. Read printer status

Make the connectable printer list information the latest.

9. Cancel

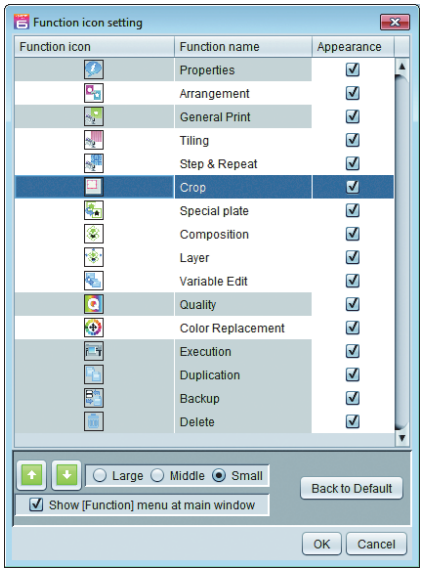
Cancel the printer registration.

10. OK

Register the printer.

Function icon setting

This is displayed when the [Function Icon] button is pressed on the printer management screen.
You can use this to change the settings concerning the function icons of the printer selected in the printer list.



Function icon list
Displays the function list supported by the printer selected on the printer management screen.
You can hide/ display that icon in the [Appearance] column.
If the background of function name is gray, you cannot hide that icon.

Changes the displaying order of the function selected in the function icon list.

Size
Changes the function icon size.

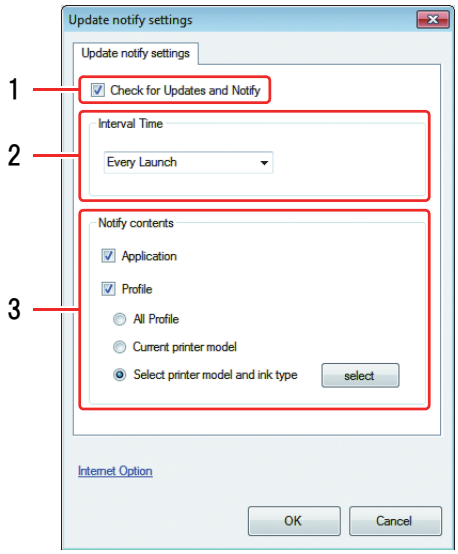
Show [Function] menu at main window
When this is ON, the [Function] menu is displayed on the menu bar of the main window.

Back to Default
When you click it, the function icon setting is returned to the default.

[Update notify settings...]

Open the [Update notify settings] screen to configure settings for Update notify.
Changed settings will be applied when RasterLink6 restarts.

● Update notify settings screen



1. Check for Updates and Notify

With this option set to ON, when RasterLink6 launches, connects to the Internet, checks for the latest RasterLink6 software information and device profiles, and notifies you.

Important!

Even if "Check for Updates and Notify" is set to ON, you cannot use Update notify in either of the following cases:

- The RasterLink6-installed PC is not connected to the Internet.
- The license has not been activated.

2. Interval Time

Set the time interval in which to check for the latest RasterLink6 software information and device profiles when RasterLink6 launches (Every launch/Every day/Every week/Every month).

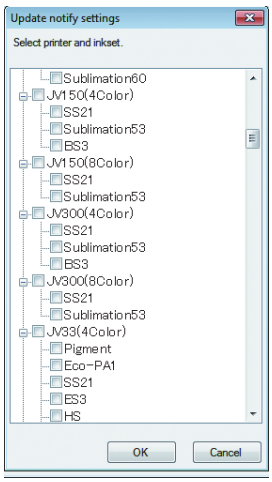
3. Notify contents

Application
When this option is ON, checks for the latest RasterLink6 update data.

Profile
When this option is ON, checks for the latest profiles.
Select an option for the profile(s) you want to install.

- All Profile
- Current printer model
- Select printer model and ink type

Click [Select] to display the following dialog box:



Important!

- If you are using a proxy server, click "Internet Option".

RasterLinkTools

What is the RasterLinkTools?

It is an Adobe Illustrator/Corel DRAW plug-in tool for creating print-and-cut data and special-color plate images for RasterLink6.
It is installed separately from RasterLink6. refer to the Installation Guide for the installation method.

Important!
- Print-and-cut data created with the RasterLinkTools cannot be used as print & cut data for RasterLinkPro5 and earlier versions in the RasterLink series.

Function

The following operations are carried out with the RasterLinkTools:
- Specifying paths as cut lines
- Generating cut lines around the periphery of graphic objects
- Generating outlines around the periphery of image data without paths.
- Saving data to RasterLink6
- Creating composed data for special-color plates

It can also be used to create the following data when functions are applied:
- Composed data for special-color plates

Displaying the RasterLinkTools window

Select [Mimaki RasterLink] from the Illustrator's [Window] menu.
The [Mimaki RasterLink] window below will open.

● In the case of Corel DRAW:

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.

Changing paths into cut data

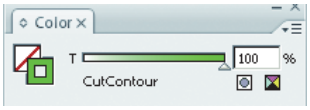
Follow the procedure below to change paths so as to be recognizable as cut lines by RasterLink6.

1 **Select the path you want to make into a cut line.**

2 **Click [Convert Cutline] in the [Mimaki RasterLink] window.**

- Alternatively, select [RasterLink]-[Convert Cutline] from the [File] menu.
- In the case of Corel DRAW:
  Select [RasterLink]-[Convert Cutline] from the [Tools] menu.

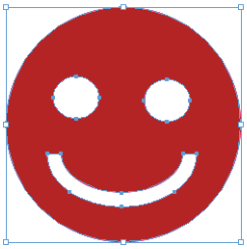
3 **The path's color will be converted to a special color (special color name: CutContour) indicating a cut line, and to "None" for "fill color".**



Generating cut lines around the periphery of graphic objects

Follow the procedure below to generate a cut line that follows the outline of a graphic object, at the object's periphery.
If hollow portions (inner frames) inside the object were set in the options during creation, cut lines that take out such portions can be generated.

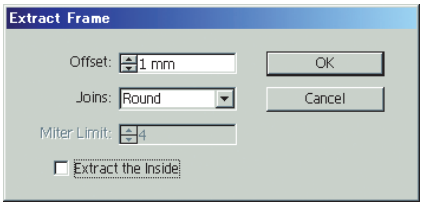
1 **Select all the objects that you want to add cut lines to.**



2 **Click [Extract Frame] in the [Mimaki RasterLink] window.**

- Alternatively, select [RasterLink]-[Extract Frame] from the [File] menu.
- **In the case of Corel DRAW:**
- Select [RasterLink]-[Extract Frame] from the [Tools] menu.

3 An [Extract Frame] dialog box will be displayed.

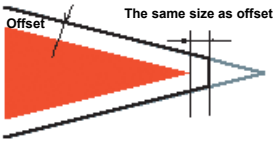


- Offset — Specify the interval between the object and the cut line.
- Joins — You can select from three options: Round/Mitered/Beveled (Illustrator only).
- Miter Limit — This will be enabled if you select “Mitered” for the corner shape. Use it to specify the corner projection amount, as a factor of the offset value (Illustrator only).

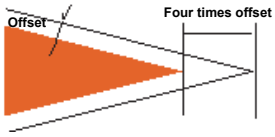
Mitered
Corners are pointed

Round
Corners are rounded

Beveled
Corners are beveled



When corner factor = 1:
The cut line’s corner is cut off at a distance from the object’s corner that is equal to the offset.



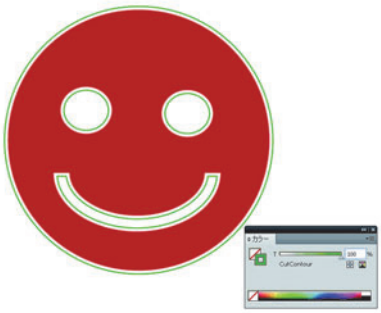
When corner factor = 4:
The cut line’s corner is projected out to a distance from the object’s corner that is equal to four times the offset. (In this figure, cutting-off of the line’s corner stops being applied at factor 4, and setting a corner factor that is any higher than this will have no further effect on the shape.)

- **Extract the inside** — When this is activated, cut lines will be created so as to take out any hollow portions that are present inside the objects selected.

When [Extract the inside] is activated:
Cut lines will also be created in the hollow portions.

When [Extract the inside] is deactivated:
A cut line will be created around the object’s periphery only.

4 The cut line(s) will be generated.



The line color of a path that has been changed to [Convert Cutline] is as follows in the initial settings:

Name: CutContour
Color type: special color
Hues: Cyan100%, Magenta0%, Yellow100%, Black0%

In cases such as the following, it will be necessary to change the color setting for the cut lines:

- When lines with multiple cut conditions are to be created in a single data item. For details, refer to P.125.
- The cut lines are to be printed, and you want to use a color different from the one in the initial settings.

For the setting method, refer to “Data creating method on Illustrator” in [Replace spot colors in a color image] (☞P.114), which sets forth a similar method.

Extracting the Outline

Create an outline to cut an image data with no path and readable on Illustrator such as bitmap, JPEG, or TIFF image.
You can also create an outline only in the same color area by specifying the color.

Trace simply

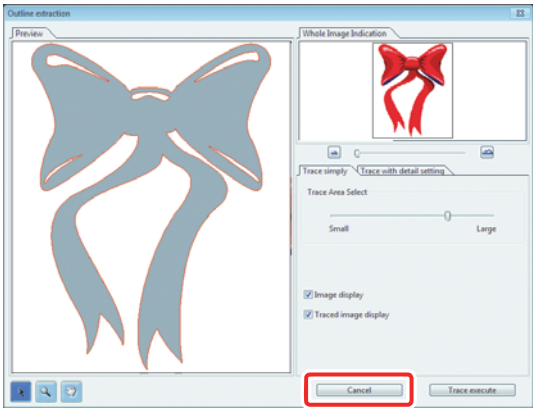
The outline of an image data can be created easily.

1 **Select an object on Illustrator.**

2 **Click [Outline Extraction] button in [Mimaki RasterLink] window.**

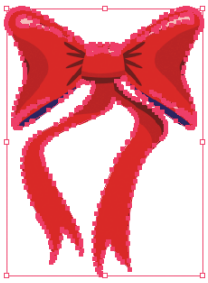
3 **Click [Trace execute] button.**

- To change the tracing area, drag the slider while checking the preview.

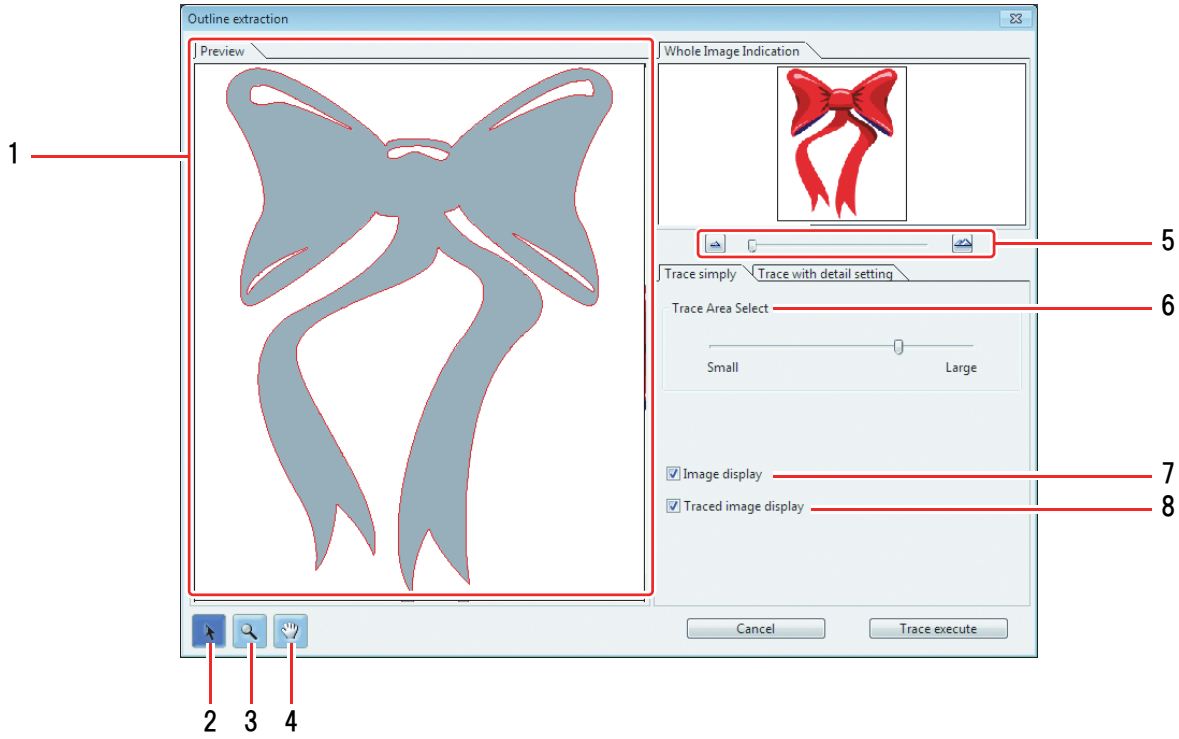


- Clicking [Trace execute], a new layer is created as [RL Trace Layer 1], [RL Trace Layer 2...]. Use this to set cutting condition for each layer. (P.125)
- To cut the data in this layer , click [Convert Cutline] to convert it to cut data. (P.158)

4 **An outline is created on the [RL Trace Layer] of Illustrator.**



● “Trace simply screen” screen configuration



1. Preview

Displays the image (monochrome) and the traced image.

2.

Moves all the object being displayed.

3.

Zooms in and out the preview.
Click on the preview to enlarge the view. To reduce the view, click on the layout area as pressing down the [Alt] key (Windows) or [Option] key (Macintosh).

4.

Changes the displaying area of the object.

5.

Zooms in and out the preview.

6. Trace Area Select

Drag the slider to select the tracing area.
Move to [Small] to trace narrower area.
Move to [Large] to trace wider area.

7. Image display

Select whether the image to be traced is displayed on the preview or not.
If checked, a trace area set on Trace Area Select is displayed in grey.
You can confirm the outlines to be extracted or compare the image and the traced image.

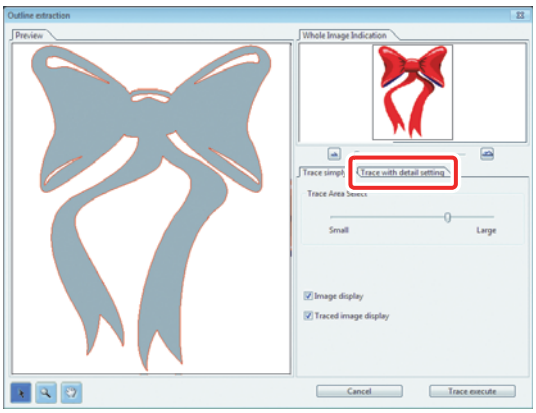
8. Traced image display

Select whether the traced image is displayed on the preview or not.

Trace with detail setting

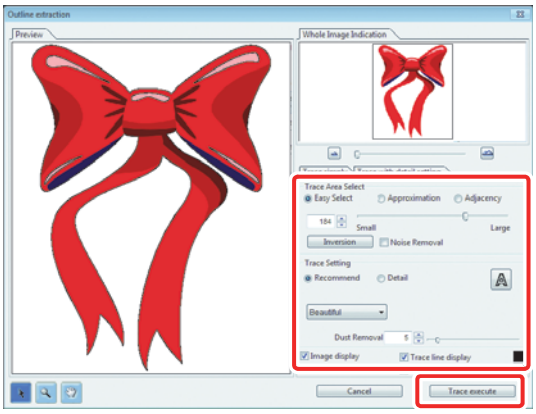
Use this tab when setting the object traced at [Trace Simply] in detail, or when tracing a specific color or area of the object.

1 **After executing [Trace Simply], click [Trace with detail setting] tab.**



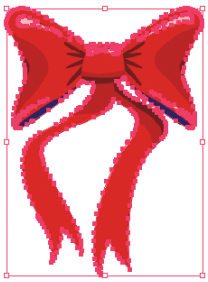
2 **Set the tracing and click [Trace execute] button.**

- Select the tracing area and set the tracing while checking the preview.

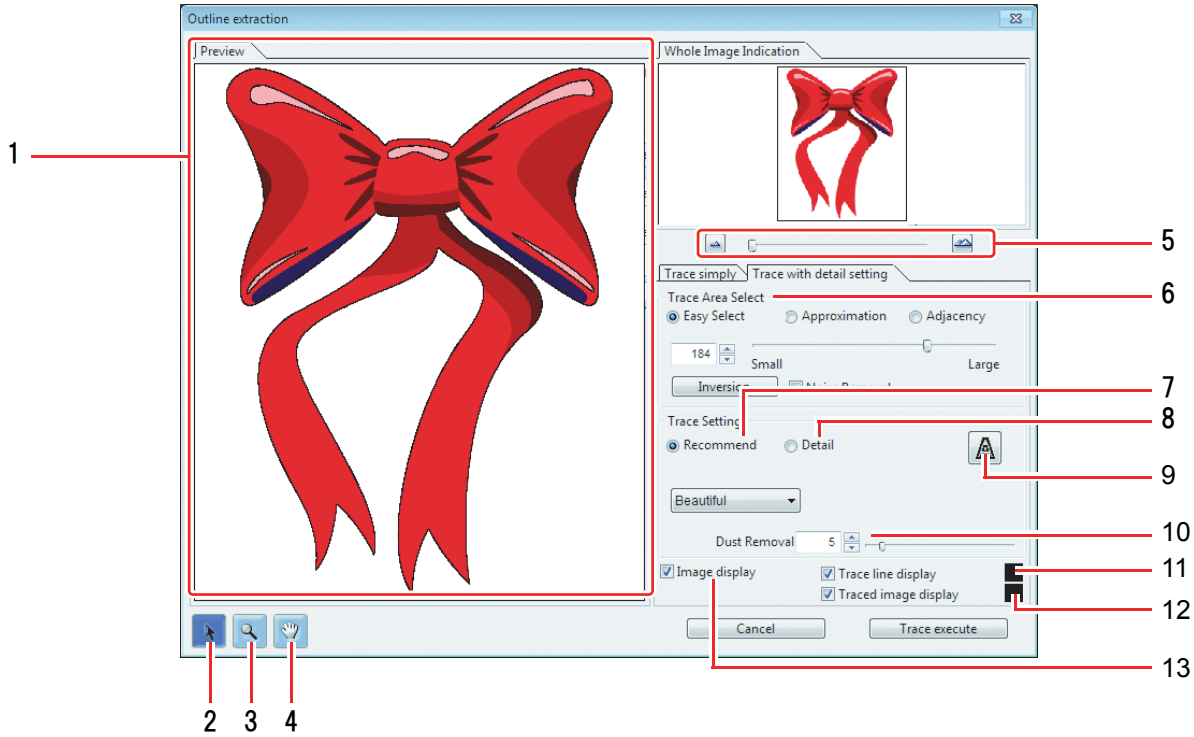


- Clicking [Trace execute], a new layer is created as [RL Trace Layer 1], [RL Trace Layer 2...]. Use this to set cutting condition for each layer. (P.125)
- To cut the data in this layer , click [Convert Cutline] to convert it to cut data. (P.158)

3 **An outline is created on the [RL Trace Layer] of Illustrator.**



● “Trace with detail setting” screen configuration



1. Preview

Displays the image and the traced image.

2.

Moves all the object being displayed.

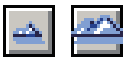
3.

Zooms in and out the preview.
Click on the preview to enlarge the view. To reduce the view, click on the layout area as pressing down the [Alt] key (Windows) or [Option] key (Macintosh).

4.

Changes the displaying area of the object.

5.



Zooms in and out the preview.

6. Trace Area Select

7. Trace Setting (recommended setting)

8. Trace Setting (detail setting)

9.

Extracts only the outline.

10. Dust Removal

Delete the line that is shorter part than the specified length. Remove the extra lines created by scanning.

11. Image display

Select whether the image to be traced is displayed on the preview or not.
If checked, trace an area set on Trace Area Select is displayed in grey.
You can confirm the outlines to be extracted or compare the image and the traced image.

12. Trace line display

Displays selected tracing area.
Click square on the right to change the display color of the tracing area.

13. Traced image display

Select whether the traced image is displayed on the preview or not.
Click square on the right to change the display color of the traced image.

Saving data to RasterLink6

When print & cut data have been created, follow the procedure below to save them to RasterLink6.

1 Click [Output to RasterLink] in the [Mimaki RasterLink] window.

- Alternatively, select [RasterLink]-[Output to RasterLink] from the [File] menu.
- **In the case of Corel DRAW:**
  Select [RasterLink]-[Output to RasterLink] from the [Tools] menu.

2 A file saving screen will be displayed.

- Select an appropriate location and click [OK].

- It's convenient to save the file to a hot folder, because then the file will automatically be saved as-is to RasterLink6.

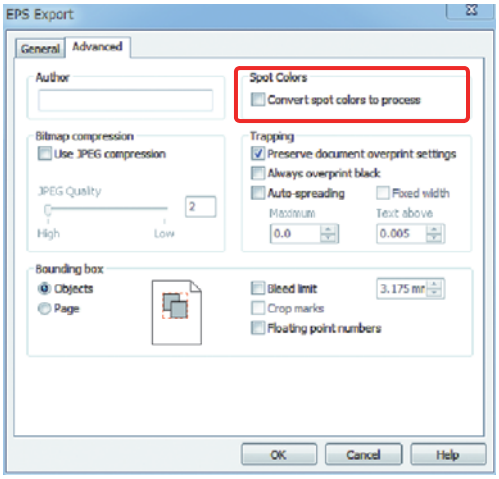
3 An [EPS Options] screen will be displayed.

In the case of Illustrator:

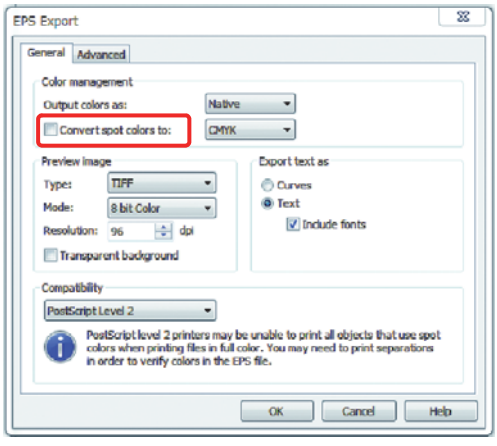
Simply click the [OK] button.

In the case of Corel DRAW:

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.



4 The file will be saved.

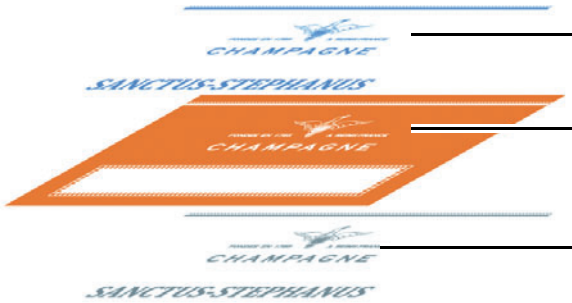
- If it is saved to a hot folder, it will be automatically read into RasterLink6.

Creating composed data for special-color plates

The RasterLinkTools is used mainly for creating print-and-cut data, but it can also be used as set forth below, for creating special-color data that cannot be created with the plate creation function.

Creating data for printing SS21 Metallic Color

To print part of print data using silver ink of SS21 ink, prepare the following three types of plates.



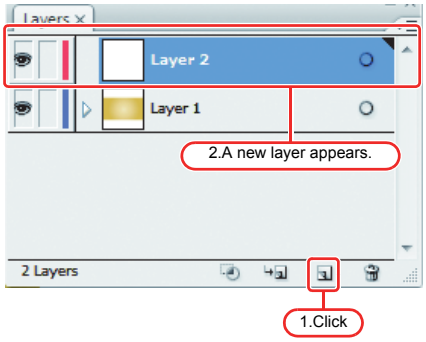
(1) Metallic color plate:
Color data to be printed over silver ink

(2) Color plate:
Color data not to be printed over silver ink

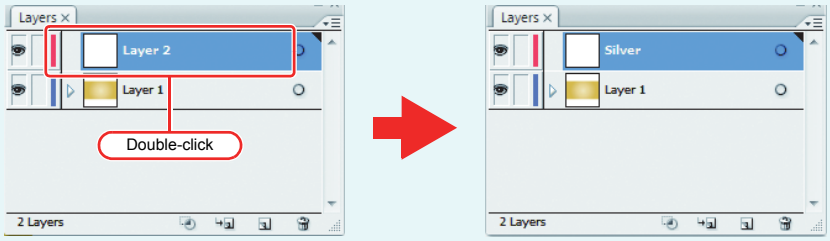
(3) Silver plate:
Data for printing silver ink

By using the cut-out function in RasterLinkTools, you can create data for these three plate types easily.

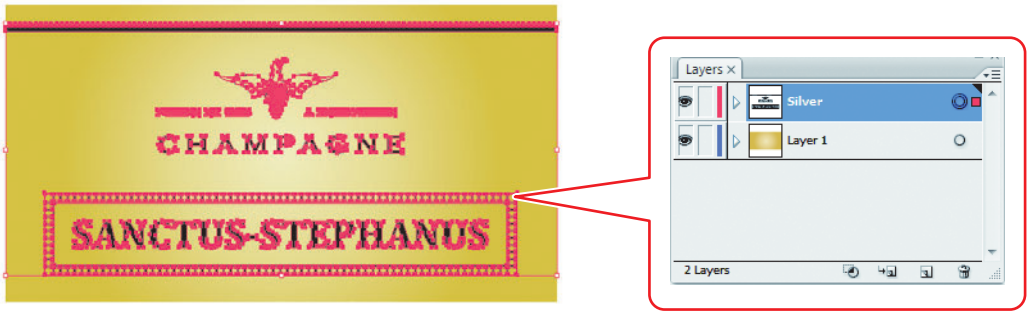
1 Create a layer for the silver plate above the layer for print data.



• Select the layer and double-click to change the layer's name.



2 In the layer created in step 1, create a path for the area you want to print by using silver ink.



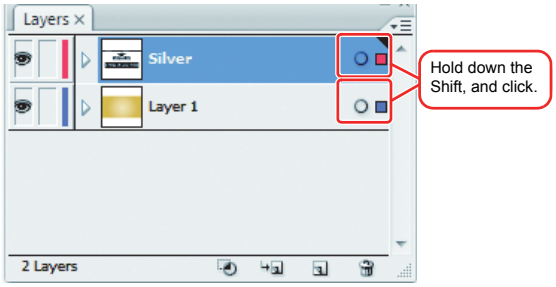
Important!

- Be sure to create a path for an area to print using silver ink. Note that an area with image data in it is not treated as a cut-out target.
- Be sure to set the following conditions to a path for an area to print using silver ink.
  Filling : K100
  Line : No filling

3 Select the layer for print data and the layer for the silver plate.

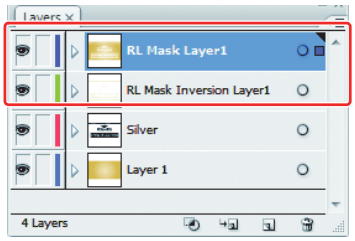
Important!

- The cut-out function applies to all the layers visible at the moment. For a necessary layer, click to hide it so that it is excluded from the layers to be cut out.



4 In the [Mimaki RasterLink] window, click [Subtract from shape area].

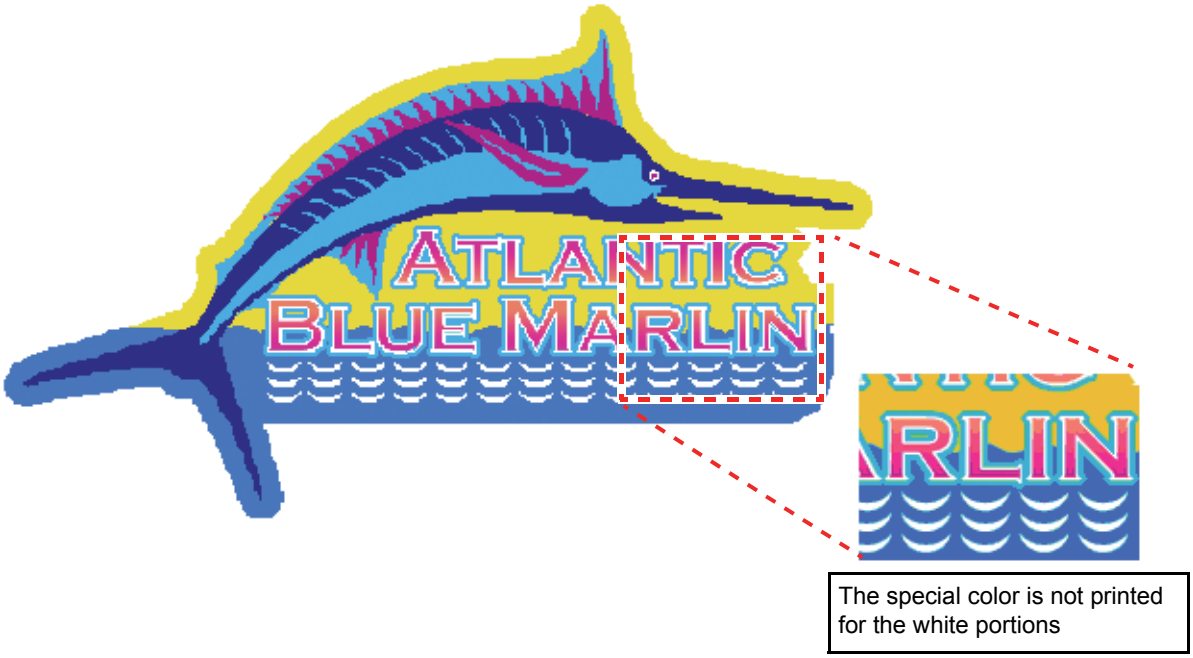
- When [Subtract from shape area] is clicked, [RL Mask Layer 1] and [RL Mask Inversion Layer 1] are newly created.



- [RL Mask Layer 1] is a layer for the metallic color plate, and [RL Mask Inversion Layer 1] is a layer for the color plate.

- For the subsequent procedures, refer to the separate Metallic Color Print Guide .

When you want to fill in all the interior of a graphic with a special color



If you create a special-color plate for an image such as the above, by selecting [Valid Pixel] in the [Special plate] function, the special color will not be printed for the white portions inside the image (the letter outlines and the wave portions).
This means that the background color will show through unchanged at the portions in question, as shown below.

To print the original image inclusive of the white portions in the special color, it will be necessary to create an image for special coloring.
Below is set forth the method for creating such an image with the RasterLinkTools.

1 Open the image with Illustrator.

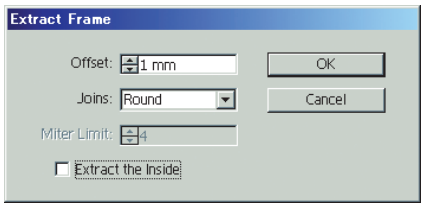
2 **Select all the objects.**

3 **Click [Extract Frame] from the RasterLinkTools's menu.**

4 **An [Extract Frame] screen will be displayed.**

- Offset : (Illustrator) 0mm
  (CorelDRAW) 0.01mm
- Extract the inside : OFF

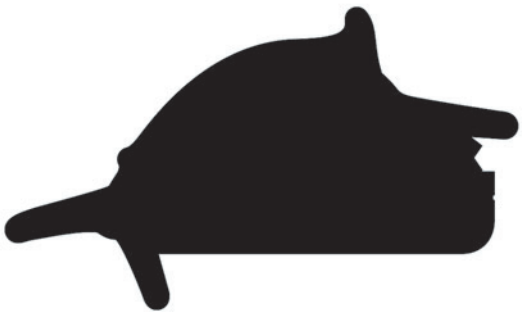
Then click the [OK] button.



5 **Paths that enclose all the objects will be created.**

6 **With the current settings, the special color for cutting will be applied. So, change the special color setting as follows:**

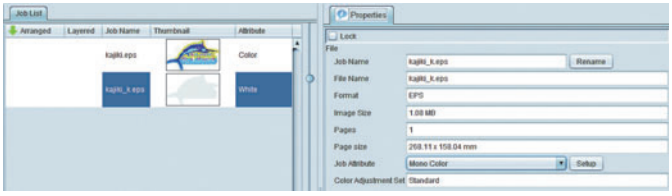
- **Stroke** : None
- **Fill** : Black100%



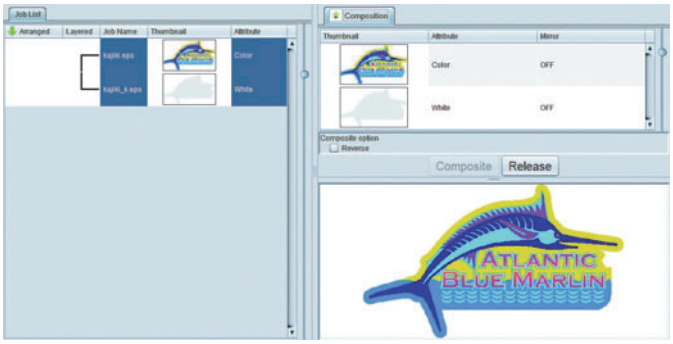
7 **Click [Output to RasterLink], to save the data to a hot folder.**

8 **The data will be read into RasterLink6.**

9 **Special color replacement will be carried out.**



10 **Compose with the color image will be carried out.**



11 **Printing will be executed.**

- The special color will be printed for the whole of the image interior, including the white portions.

Checking for updates to RasterLinkTools

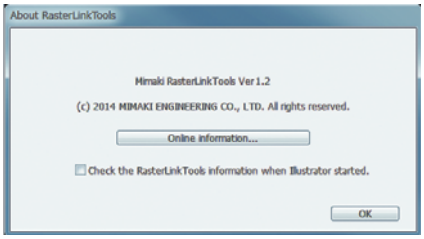
When you are connected to the internet, you can get information on updates to the RasterLinkTools.

1 **Click button in the [Mimaki RasterLink] window.**

- Alternatively, select [RasterLink]-[About RasterLinkTools] from the [File] menu.

2 **An [About LasterLink Plugin] screen will be displayed.**

- Click the [Online information] button to access the latest information on the plug-in via the internet.
- If you activate [Check the RasterLink Plug in information when illustrator started.], updated information will be automatically displayed when Illustrator is started up.



Update notify

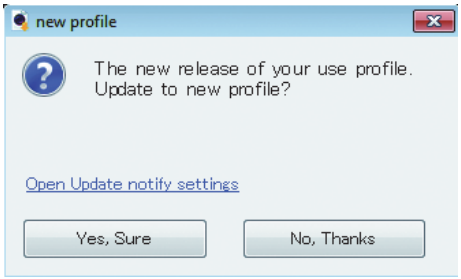
When RasterLink6 launches, notifies the latest information about RasterLink6 and profiles.

> Important! **Even if "Check for Updates and Notify" is set to ON in Update notify settings, Update notify is not displayed in either of the following cases:**
> • The RasterLink6-installed PC is not connected to the Internet.
> • The license has not been activated.

Update notify display

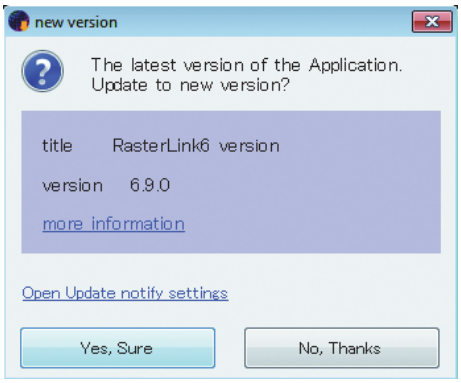
When the latest information is available for RasterLink6 and profiles, their respective dialog boxes appear.

● Profile



- Click [Yes, Sure] to launch Profile Update. Download the latest version of the profile.
  After the profile has been downloaded completely, check for RasterLink6 update data.
- Click [Cancel] to check for RasterLink6 update data.

● Application



- Click [Yes, Sure] to download the update data.
  Launch RasterLink6 to upgrade the version.
- Click [Cancel], and RasterLink6 launches.

At times like this

Trouble Shooting

Error message

Error message	Indicate condition	Remedies
Failed to start RasterLink6 because the other program is using the profile-database.	RasterLink6 was started up while the other program (ProfileManager) is opening the database file (Profile\Profile.mdb).	Exit the Profile Manager, and then start RasterLink6.
Failed to start ProfileManager because the other program is using the profile-database.	ProfileManger was started up while the other program (RasterLink6) is opening the database file (Profile\Profile.mdb).	Exit the RasterLink6, and then start Profile Manager.
RIP software has been already running.	RasterLink6 was started up while the other MIMAKI RIP software (RasterLinkGP/UJ, RasterLink2-5) is running.	Exit the other MIMAKI RIP software, and then start RasterLink6.
Failed to load the execution module : [execution module name]	The file needed for running RasterLink6 is broken.	Please reinstall RasterLink6.
Failed to get the profile information.	Failed to get the printer attribute information and pre-installed profiles information from the database file (Profile\Profile.mdb) during RasterLink6 start-up.	Profile management file may be destroyed. Please reinstall RasterLink6.
There is no RGB input profile. Please install at least one profile.	RasterLink6 was started up when all the RGB input profile is uninstalled in Profile Manager.	When RasterLink6 is executed, not less than one RGB Input file is required. Please install RGB Input profile provided using ProfileManager.
There is no CMYK input profile. Please install at least one profile.	RasterLink6 was started up when all the CMYK input profile is uninstalled in Profile Manager.	When RasterLink6 is executed, not less than one CMYK Input profile is required. Please install CMYK Input profile provided using ProfileManager.
There is no full color device profile. Please install at least one profile.[Printer Name: Ink set]	Failed to register the printer in [Printer Management] because the device profile for specified [Ink set] is not installed at all.	When activate RasterLink6, not less than one Device profile is required. Please install Device profile using ProfileManager.
	RasterLink6 was started up with the device profiles for [Ink Set] deleted after printer registration in ProfileManager."	
The inkset information [Inkset discrimination] is not defined in the database.	Failed to get the ink set information by erroneous selection of [Model] and [Color] when adding the printer in [Printer Management]	When adding the printer in [Printer Management], please select the [Model] and [Color] which is matching to the connected printer.
The Device profile specified in the Favorite setting [Favorite name] was not found. The settings were initialized. Please check the settings.	RasterLink6 was started up in a state that device profiles which is associated with Favorite Setting in Profile Manager.	RasterLink6 has updated device profiles specified in the favorite setting automatically. Please confirm the favorite setting.
The device profile specified in the Job [Job name] was not found. The settings were initialized. Please check [Quality] settings.	RasterLink6 was started up in a state that device profiles which is associated with the job was removed in Profile Manager.	RasterLink6 has updated device profiles specified in the job automatically. Please confirm the print condition.

Error message	Indicate condition	Remedies
Any available printer has not been specified.	In [Printer Management], you tried to register the printer in a state of the computer disconnected to the printer.	Please confirm the connection between the printer and computer.
The printer name has been already used.	In [Printer Management], you input the [Printer name] which is already registered as the same printer.	Please input the printer name which is NOT registered in [Printer Management] or registered in [Control Panel]-[Printer].
The selected available printer has been related to another printer (Printer name).	In [Printer Management], you input the [Printer name] which is already registered as the same printer.	In [Printer Management], it is not possible for the printer to register multiple printers.
The ink configuration had changed. Please register a new printer.	You clicked [OK] in [Printer Management]-[Properties] after changing the ink set for the registered printer.	It is not possible to change the ink set information to the pre-registered printer. Please delete the registered printer in [Printer Management] and then newly add the printer.
[MACHINE NAME] is duplicated for some printers. Please specify a unique [MACHINE NAME] for each printer by the Operation Panel.	When registering multiple printers in [Printer Management], [MACHINE NAME] overlaps the printer which was already registered, it was not possible to register the printer.	If two or more printers are connected with?USB2.0 interface, specify a unique [MACHINE NAME] for each printer.
Insufficient access rights to perform the operation. Please restart RasterLink6 after log on as an administrators group user.	You tried to create or delete a hot folder in [Favorite Setting] after you logged in as regular user and started RasterLink6.	Please log in as Administrators group user, and then start RasterLink6.
	You tried to delete a printer that the hot folder was created in [Printer Management] after you logged in as regular user and started RasterLink6.	
Could not stop Print Spooler. Could not start Print Spooler.	Windows Print Spooler service cannot be stopped or started when creating or deleting a hot folder.	Computer is in a state where it is not possible to start or stop Print Spooler service in Windows. Start or stop of the service program is blocked by anti-virus software. Please temporarily uninstall the anti-virus software or temporarily void 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].	Printer driver supporting the hot folder cannot be created or deleted when creating or deleting a hot folder.	This may be an unexpected effect of a printer from other company. Delete the printer of the other company from [Control Panel]-[Printer].
	Printer drive cannot be deleted when uninstalling RasterLink6.	Delete the printer created by RasterLink6 from [Control Panel]-[Printer] after restarting if this error occurs when uninstalling.
File name is too long.	When spooling a file by operating [File]-[Open] or Drag & Drop, the file could not be accessed because full path of the target file is too long.	Windows available file path is up to 255 bytes. Especially it tends to be long path name when accessing from network drive. Please copy the file into the local drive such as local HDD and USB memory and then load the file into RasterLink6.
No more jobs can be registered. Please delete unnecessary jobs.	Jobs has been reached upper limit of registerable number of jobs (200 jobs).	Please delete unnecessary jobs.
Cannot recognize the file format.	Unsupported file format was loaded to RasterLink6.	Printout with [File]-[Print] menu at the application software.

Error message	Indicate condition	Remedies
Cannot get the image size.	Failed to get the image size (media size) of the loaded file.	Printout with [File]-[Print] menu at the application software.
Cannot move the file from [source] to [destination].	This message may appear when you copy the file from Client computer to Hot folder.	This error happens because the Client computer release the copied file
PostScript Error	RIP core has detected an error when reading a file or RIP processing.	Printout with [File]-[Print] menu at the application software.
		When [VMerror], [limitcheck] appears, input image data is too complicated. Please simplify the data by, for example, rasterize the vector objects. If the image contains a gradation object, please try turning off [Compatible gradation]. If the image contains a gradation mesh, please try turning on [Gradation mesh print].
		If [invalidaccess] occurs when loading PDF file, PDF file is protected by a password. Please re-save the PDF file to unclock the password protection.
The operation can not continue due to extremely insufficient memory.	It became the state available memory is extremely small.	Restart the RasterLink6.
		Decrease the [Preview resolution] at [Environments]-[Option]-[Display].
Layout preview can not be displayed because the media width is zero. Confirm the media width at [Printer Status]-[Media].	You switched to the Layout preview in a state that Media has not been set into the printer, or [Manual: 0 mm] is specified in [Media size].	Please set the media into the machine and get the printer status data again.
		Please input a valid size when specify the [Media width] manually.
The job is arranged out of the print area.	The job is located out of the print area completely.	Arrange the job within the drawing area.
The job is arranged out of range of the print area.	The job is partially located out of the print area. It does not print the part protruding.	Please rearrange the job within the print area.
Any of print tiles is not specified.	Any of print tiles is not selected in [Tiling] menu.	Specify one or more print tiles at [Tiling]-[Divide Edit].
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.	In [Tiling] screen, the tile size is less than minimum size exists.	Adjust the tile split range and set the tile size to be bigger than 1 inch (25.4 mm).
The size of some tiles is smaller than the overlap.	In [Tiling] screen, the tile size is less than overlap length exists.	Please specify the tile is larger than the overlap length.
Different [Resolution] is specified in selected jobs.	In [Arrangement] screen, you tried to imposition jobs with different resolution and dot type (ND/VD).	In [Print Condition] menu, change the resolution and dot type to match the target job.
Different [Multilayer Print Type]s are specified in selected jobs.	In [Arrangement] screen, you tried to imposition jobs with different multilayer print type.	In [Print Condition] menu, change the multilayer print type to match with the target.
This Print Condition is different from the selected job. [First Job Name]Print Condition applies to all selected jobs in case of arrangement. OK?	In [Arrangement] screen, it tried to imposition multiple jobs but print condition will be changed to be imposing.	If you do not want to change the print condition, select [NO].

Error message	Indicate condition	Remedies
Only a part of Composited / Arranged Job is not Delectable. To Delete a Part of Composited / Arranged Job, Please De-composite / De-arrange Job before Delete.	In [Delete] screen, you tried to delete some of arranged jobs or composite jobs.	Please delete the job after release the arrangement or composition.
USB2 : Cannot open port(W). USB2 : Cannot open port(U).	It cannot connect to the printer.	Please confirm the printer power on, and the connection between the printer and computer with USB2.0 cable.
USB2 : [DATA CLEAR] function was performed by the printer.	During printing, [DATA CLEAR] key of the operation panel was pressed, or "MEDIA END" was detected.	Print was interrupted by [DATA CLEAR] key. It is not possible to print again from the interruption. Please start printing from the beginning.
DRV : An error has occurred during output(W). DRV : An error has occurred during output(O).	During print data transfer to the printer, USB communication failure has occurred.	This error tends to occur with a non-recommended environment such as: • Not using a computer having Intel Chipset • Extended USB cable with a repeater cable • Quality of USB cable is poor. (Use Mimaki recommended cable.(sold separately))
Cannot connect to the printer with USB2.0 Hi-Speed mode. Please check the connection of USB port, cable and USB-Hub are based on USB2.0.	In the USB connection to the printer, it was unable to connect with USB2.0 Hi-Speed mode.	Please check the USB2.0 connection environment.
Cannot get information for the calculation of the consumption of ink from the printer status.	You tried RIP with the printer disconnected. In some of Mimaki printers, it is required to connect with the printer for counting ink consumption.	Please check the connection between the computer and the printer. If you don't need to count the ink consumption, turn OFF [Calculate Ink Consumption] in [Environment]-[Option]-[Job control].
Cannot execute the Job because the media width is zero.	You started to print the job in a state that Media has not been set into the printer, or [Manual: 0 mm] is specified in [Media size].	Please set the media into the machine and get the printer status data again. Please input a valid size when specify the [Media width] manually.
Cannot get information for multi layer print from the printer status. Please check the connection to the target printer.	You executed RIP the 3-layer printing job with the printer disconnected.	Please check the connection between the computer and the printer.
Unable to read the file. Either the file has been damaged or the file format is not valid.	During RIP processing, an error was detected in the input file.	Please recreate the input file. This error also occurs when loading the alpha channel TIFF file. Please remove the alpha channel.
No restorable printer is registered (Model name).	When restore the backup job file in [Backup] screen, it was unable to restore the job because the same printer which backup job is created was not registered.	Register the applicable printer with the PrinterManagement and restore.

Error message	Indicate condition	Remedies
Cannot restore the file because it was backed up by newly version of RasterLink6. Please update RasterLink6 to [Version No.] or later.	When restore the backup job file in [Backup] screen, you tried to restore the backup job which is backup in the newer version of RasterLink6 than that is currently installed.	You cannot restore backup job that is created in the latest version of LasterLink6 onto the former version. Please update RasteLink6 to the latest version.
Cannot restore the job because the necessary profile has not been installed. Please exit RasterLink6 and install the following profile by ProfileManager and then restore the job again.	When restore the backup job file in [Backup] screen, the backup job was not restored because the device profile which is used in backup job was not installed.	Please follow the message and install the device profile in ProfileManager after closing RasterLink6.
The free space of the working drive (Drive Name) is less than the setting size (## GB). Please delete unnecessary jobs or Ripped Data.	HDD space has dropped below the set value in [Environment]-[Option]-[Disk]-[Disk Space to Keep].	Please delete unnecessary jobs to secure any free space capacity of the drive.
Can not operate the job which is not ready.	For the job of running, you specified to rerun it before completion.	Please wait until the job execution is completed.
No operation applies to locked job.	For the locked job, you operated Attribute change, Arrangement, Layer creation, Composition, Deletion.	Please unlock the job in [Job Properties].
The changes were not saved because one or more jobs has been locked.	You selected the locked job and opened edit screen. Even if you changed in any edit screen, the change will not be applied when switching the screen.	Please unlock the job in [Job Properties] when changing the job setting.
The print condition in effect is not recommended print condition (recommended drawing mode) of profile. It may be compromise of quality if you continue the printing.	This message appears when the print condition (pass, layer, print direction, high speed print) is not recommended condition and it is not possible to get UV level.	• Please print with recommended print condition. • Please change the setting other than [HOST] in UV mode setting at the printer.
	When selecting [Yes], print is interrupted.	
	When selecting [No], print is continued with UV level setting by the printer.	
The specification method of the printing page range is not suitable.	In [Page setting], you entered improper character strings or specified the upper limit of the input page is greater than the total page.	Please specify the page with care of the followings: Do not use ""-"" at 2 places. Do not use the character other than ""-"" and "","". Do not enter the upper limit of the input page is greater than the total page.
Can not composite jobs with different color set of device profile.	You tried to composite the jobs with different ink color set. It is not possible to composite jobs with different color set.	Please change the device profile of the same color set.
Cannot Speed-priority Composite jobs with different device profile.	You tried to composite the jobs in [Speed priority] with different device profile. It is not possible to composite jobs with different device profile in [Speed priority].	Please change to the same device profile and then composite the jobs.
		Please composite the jobs in [Quality priority].
Cannot Speed-priority Composite jobs with different resolutions.	You tried to composite the jobs in [Speed priority] with different resolution. It is not possible to composite jobs with different resolution in [Speed priority].	Please change to the same resolution and then composite the jobs.
		Please composite the jobs in [Quality priority].

Error message	Indicate condition	Remedies
Server is busy, so cannot connect to the database. Please wait for a while and try again.	License activation was executed during server maintenance.	Please try it again later.
Re-activate is needed.	License is not activated.	Follow RL6 Operation manual to deactivate the License and then activate the License again.
The PC configuration has been changed after your activation.	License activation had been performed with LAN cable connected but Raster Link was started with wireless LAN connection.	(1) Restore the computer to the condition when License Activation was performed before starting Raster Link. Change the network connection (LAN cable or wireless LAN) Replace the motherboard of your pc to the original one (2) Activate the License again after deactivate it, and then start Raster Link. If the computer is not connected to the internet, perform Substitute License activation.
	License activation had been performed with wireless LAN connection but Raster Link was started with LAN cable connected.	
	Computer configuration was changed. Example: (a) The motherboard in your pc was replaced. (b) The pc has been connected with LAN cable under the different environment when License Activation was performed. (c) The pc has been connected in the different wireless environment when License Activation was performed.	
Error occurred during activation.	This message may appear when using the following network connection: • PPP connection type network adapter (e.g. USB data communication terminal) • USB connection type network adapter (e.g. USB wireless LAN adapter)	Connect with a LAN cable for license activation. Do not use the PPP connection type network adapter and USB connection type network adapter.
This serial key is already used on another PC.	You find this error when you try to activate licence with leaving the licence activated on the another computer. (e.g. If you have a computer with licence activated, yet installed RasterLink6 to the another, executing the licence activation, then you find this error.)	Please deactivate the license on the other computer, and then activate the license on the computer you need.
The job in Hot Folder was ignored.	The number of jobs registered into the job list of RasterLink exceeds 200, the above message is shown when loading the job.	In the case of the message above is shown, delete unnecessary jobs to reduce the number of registered jobs. Basically, it is recommended to delete unnecessary jobs from the job list. In case the job will be used in the future, it is also recommended to backup the jobs before deleting from the job list.
An overflow error occurred.	An image size is too large to create the outline using Outline Extraction function in RasterLinkTools.	If you cannot create the outline using Outline Extraction function, please reduce an image size.

About security setting of installed PC

CD menu screen does not appear when installation CD is inserted into the PC

If an automatic execution function (Autorun) of the CD or the USB memory is disabled, the CD menu does not start when the CD is inserted. In this case, display the CD drive as follows, and then directly select “CDMenu.exe” to execute it.

(1) Select the CD drive in the explorer.
(2) Select “CDMenu.exe”, and then select [Open] from the pop-up menu.

Important!

- Be sure to use CDMenu.exe to install RasterLink6. If it is installed directly from the RasterLink6 installer without using the CDMenu.exe, some files are not installed and errors may be caused.

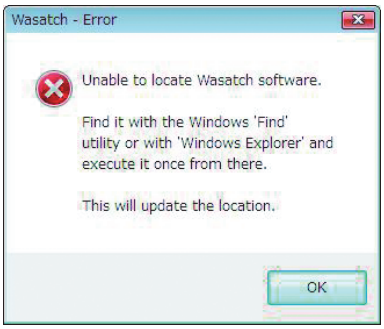
When License Activation / Program Update / Profile Update is used

When security software with a firewall function is used, block the network (Internet) connection from each tool of License Activation / Program Update / Profile Update.
Most security software display connection admission screen to confirm when the software tries its first connection to the network. If the connection confirmation window appears when each tool above is started first,admit it.
If you did not admit it in error, refer to the manual of the security software used, and admit the network connection of the following files.

- RasterLink6 installation drive\MijSuiteWeb\Bin\AppWebcLicense.exe
- RasterLink6 installation drive \MijSuiteWeb\Bin\AppWebcProgram.exe
- RasterLink6 installation drive \MijSuiteWeb\Bin\AppWebcProfile.exe

Images cannot be read into RasterLink6

When reading images into RasterLink6, sometimes an error message window as shown on the right appears and the images cannot be read. The possible causes are that the security software blocks the start of the tools necessary for RasterLink6 to read images, or faultily detects the image as a virus and deletes it. Check the followings.



(1) Referring to the manual of the security software, check the following file is on the software list that limits the start, and if it is on the list, admit the start.
RasterLink6 installation folder \Bin\PS3.exe
(2) Check the file above is in the PC. If not, reinstall RasterLink6. Then, refer to the manual of the security software to set the file above on the white list (The file list that is not virus).

If an error occurred in the RasterLink6 screen display

In rare PC environment, an error below may occur in the RasterLink6 screen display.

- When you switch tabs, a part of the previous tab remains.
- The preview image jumbles.
- When you use RasterLink6 for a long time, the screen display becomes look funny and the PC may freeze at worst.

If these errors occur, it is possible to solve them with the following methods:

Method to solve 1

Upgrade the driver of the graphic board to the latest version.
For the method to upgrade the driver of the graphic board, refer to the manual of your PC or the graphic board.
If the latest driver is not provided, perform the next [Method to solve 2].

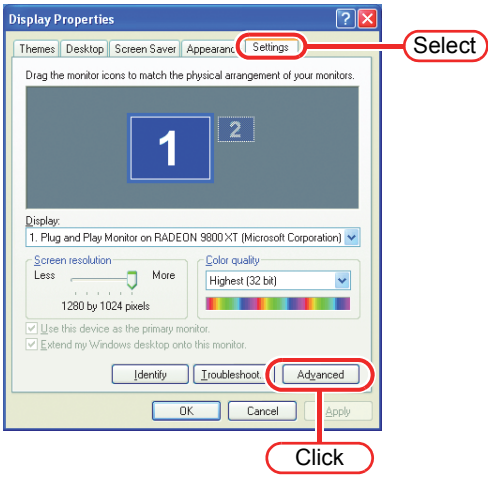
Method to solve 2

● For Windows XP

1 **Right-click the desk top and select [Property] from the displayed pop-up menu.**

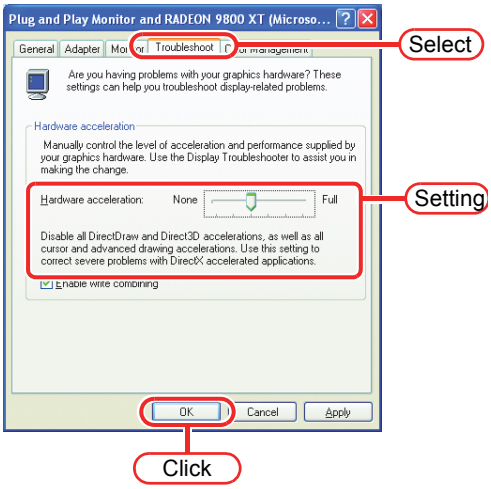
2 **As the “Display Properties” window is displayed, click the [Settings] tab.**

- Click Advanced.



3 **From the displayed window, click [Troubleshoot]tub.**

- Change “Hardware acceleration” to the second from the left end.
  The following message is displayed:
  “Disable all DirectDraw and Direct3D accelerations, as well as all cursor and advanced drawing accelerations. Use this setting to correct severe problems with DirectX accelerated applications.”



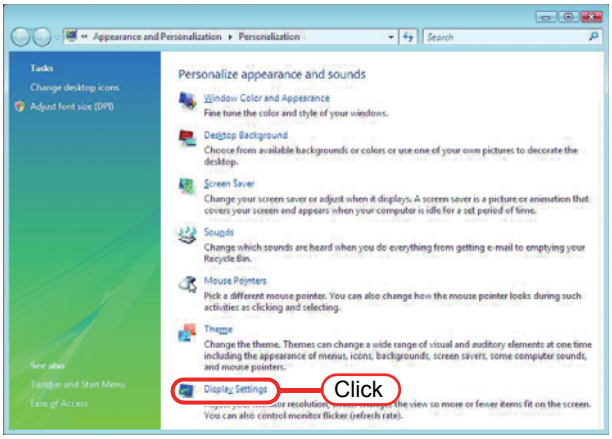
4 **Click** OK **.**

5 **Terminate “Display Properties” with** OK **.**

● For Windows Vista

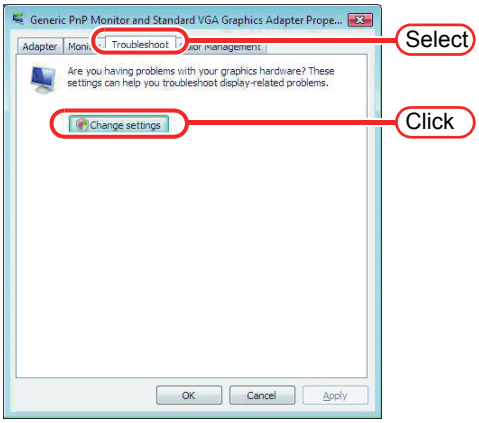
1 **Right-click the desk top and select [Personalization] from the displayed pop-up menu.**

2 **As the “Personalization” window is displayed, click [Display Settings].**



3 **As the “Display Settings” window is displayed, click** Advanced Settings... **.**

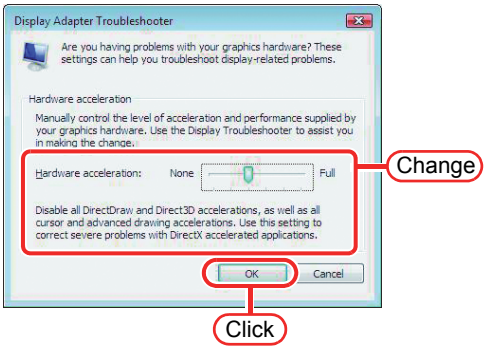
4 **From the displayed window, select [Troubleshoot].**



5 **Click** Change settings **.**

6 **Change “Hardware acceleration” to the second from the left end.**

- The following message is displayed:
  “Disable all DirectDraw and Direct3D accelerations, as well as all cursor and advanced drawing accelerations. Use this setting to correct severe problems with DirectX accelerated applications.”



7 **Click** OK **.**

8 **Terminate [Display Setings] with** OK **.**

RasterLink6 does not launch even after the RasterLink6 icon on Desktop is double-clicked

In some PC environment, RasterLink6 might be unable to launch even after the RasterLink6 icon on Desktop is double-clicked.
At this point, on Windows, click [Start]-[All Programs]-[MimakiRasterLink6]-[MimakiRasterLink6] to launch RasterLink6.

- If this phenomenon occurs, you might solve the problem by the following method:

Method to solve

Change desktop themes.

Note on application

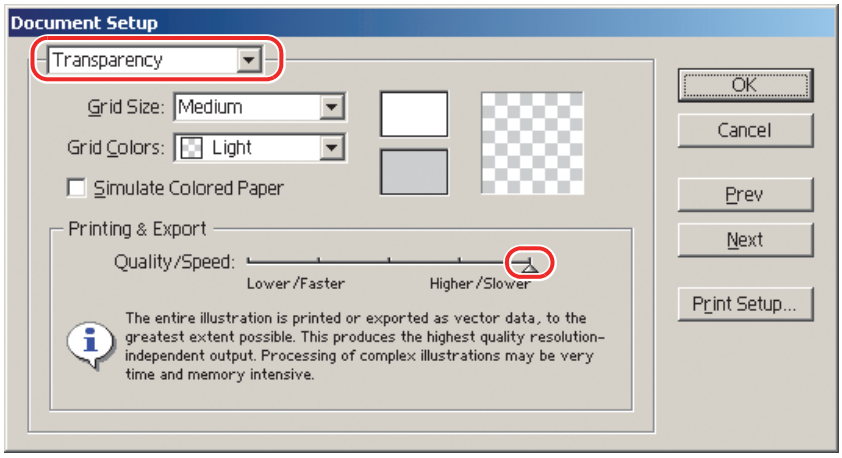
About Adobe Photoshop 5.x and earlier

Files of Adobe Photoshop 5.X or older versions may be printed dark.
And when EPS file of Adobe Photoshop 5.X or older versions is placed on Adobe Illustrator, it may also be printed dark.
In case an image is printed dark, execute one of the following procedures.
Uncheck “Post Script Color Management” of Print Dialogue of Adobe Photoshop. Or, save it with Adobe Photoshop 6 and later.
When “Post Script Color Management” is checked, color matching of RasterLink6 does not work and the image is printed dark.

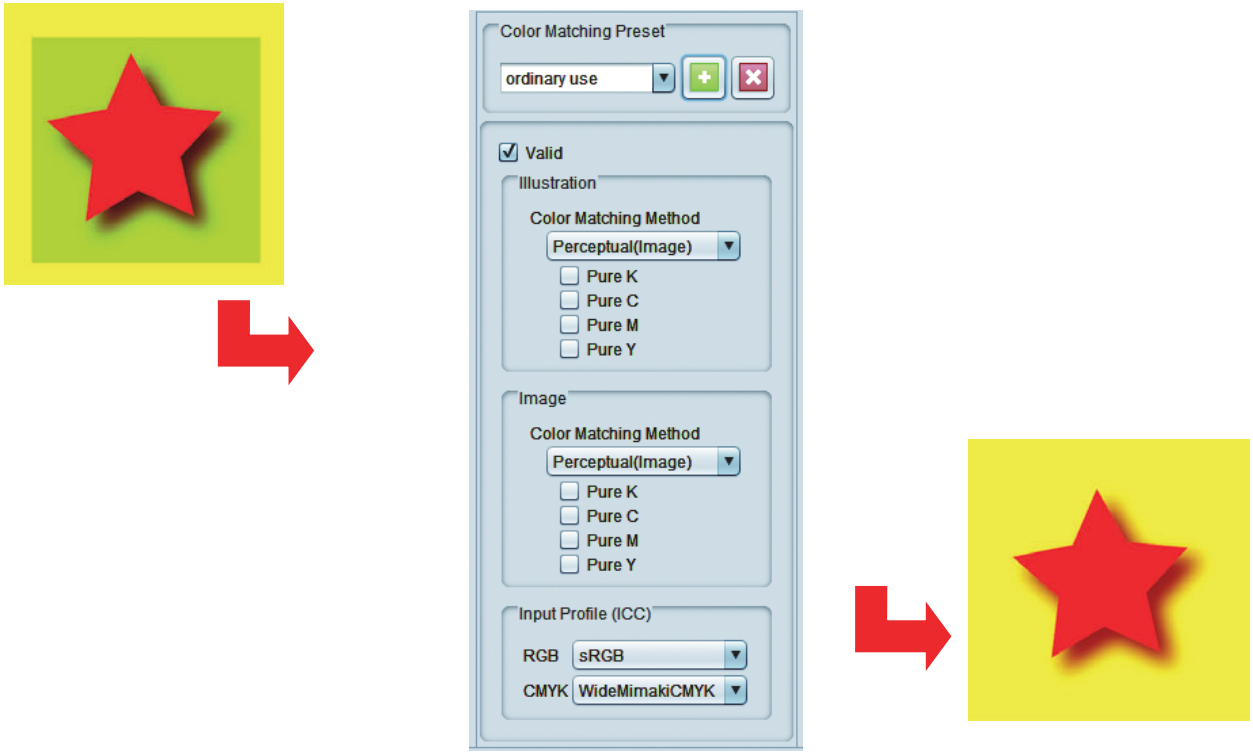
About Adobe Illustrator

● Drop shadow and Transparency

Data that is created with Adobe Illustrator 9 or later versions adopting transparency effect may have prominent jags (stair-like oblique line), when it is enlarged and printed with RasterLink6.
To avoid this, set items of “Document Setup” menu of Adobe Illustrator as follows.

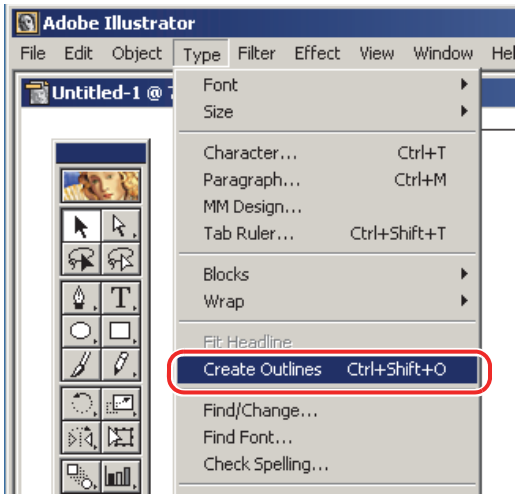


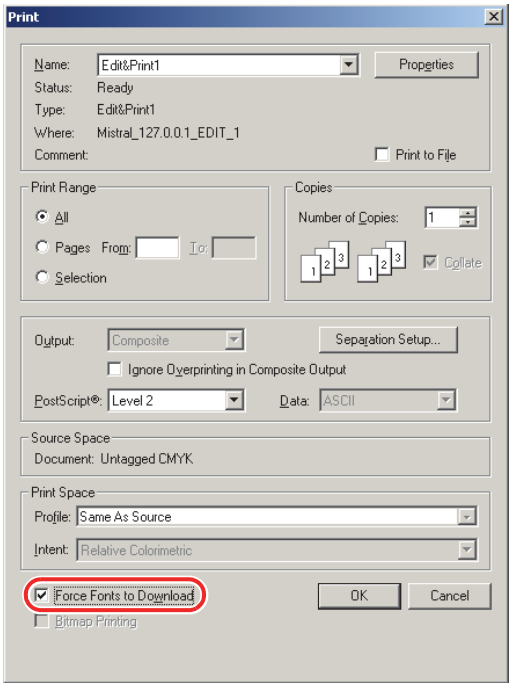
When using drop shadow command, the color around the object becomes different from the ground color.
To avoid this, set color matching method of both illustration and image of RasterLink6 equal.



- **Letters cannot be plotted**
- **Letters become italic**
- **A part of the object around the letters cannot be plotted**

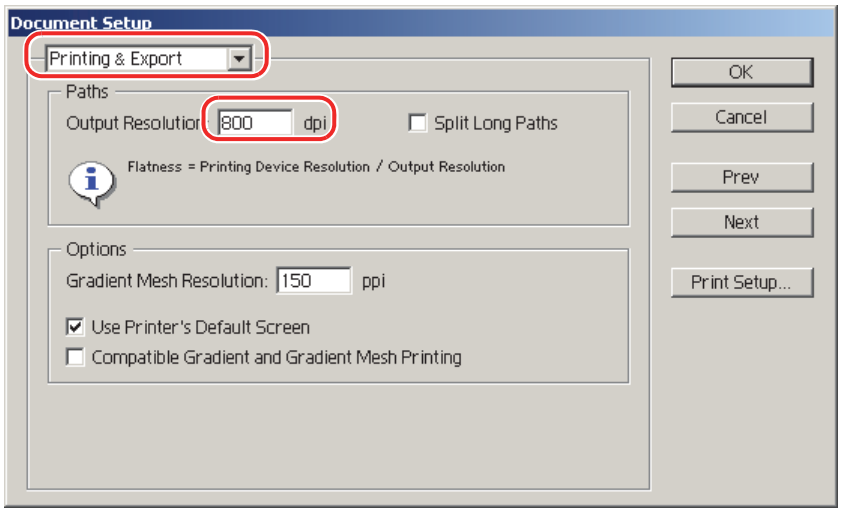
Change the font into Outline.
When printing with the printer driver, set the driver so as to download the font.





Circles or letters become polygonal

Output resolution of Paths of Illustrator is too low or scale ratio at RasterLink6 is too high (for example some are set at 1000%).
Default value of Output resolution of paths of Illustrator is 800 dpi.
Increase the Output resolution of Illustrator or lower the scale ratio of enlargement at RasterLink6.



For increasing the output resolution of Illustrator paths, calculate the resolution with the following formula. Specifying a higher value than that obtained with the formula has no effect.

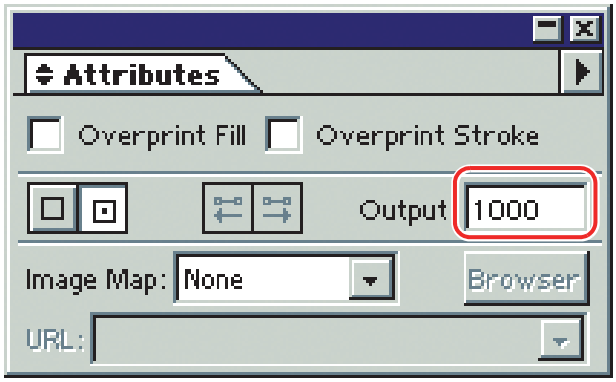
With Illustrator 8, 9, or 10

Output resolution = Resolution in the scan direction of the selected device profile x scale value (%) specified for image editing / 100

Example:
Selected device profile resolution: 720 x 1440 dpi
Set the scale value for image editing at 1000%

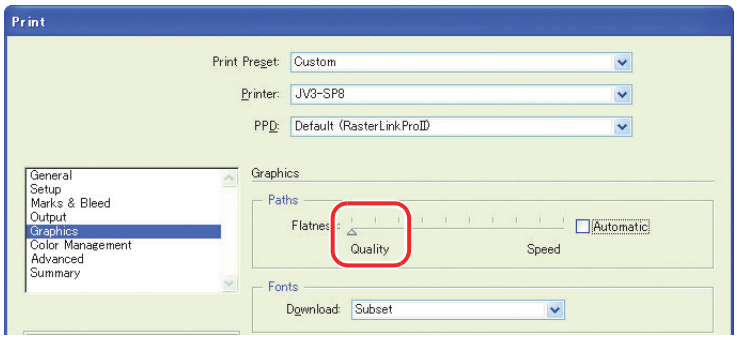
720 (scan direction resolution) x 1000 (scale value) / 100 = 7200
Set the Illustrator path output resolution to 7200.

As for Illustrator 8 and Illustrator 9, changing the Output Resolution of “Printing & Export” in “Document Setup...” does not affect on the created object.
To change the created object, select the object and change the object size at “Attributes” pallet.
To access “Attributes” pallet, select “Window” menu and then “Show Attributes”.

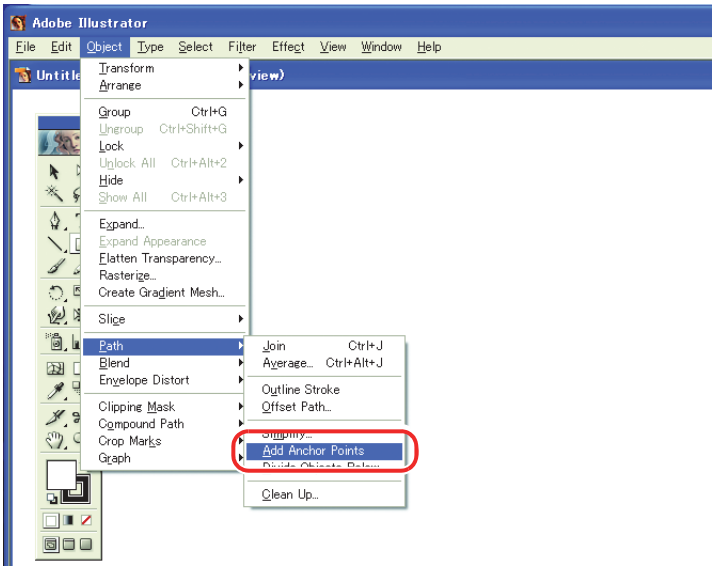


With Illustrator CS, CS2 or CS3

When saving to an EPS file, there is no setting item for path output resolution. Use the printer driver from Illustrator to set “Flatness” of “Graphics” to “Quality” before printing.

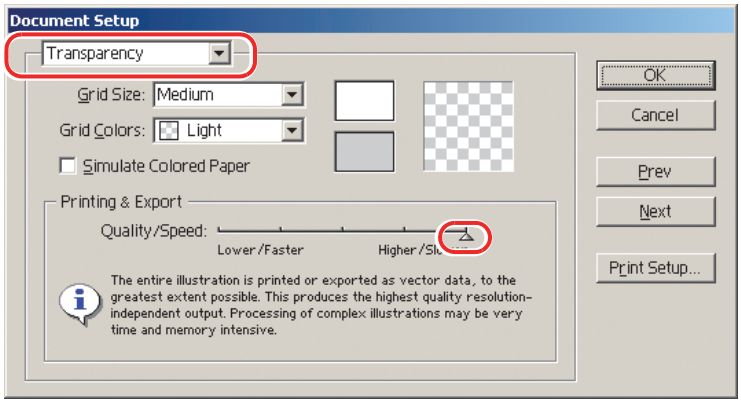


If you do not increase the scale value in RasterLink6, or you increase the output resolution of Illustrator paths, circles and text objects may be printed as polygons. In this case, select the relevant object in Illustrator, apply [Add Anchor Points] 1 to 3 times, and make the individual curves shorter.



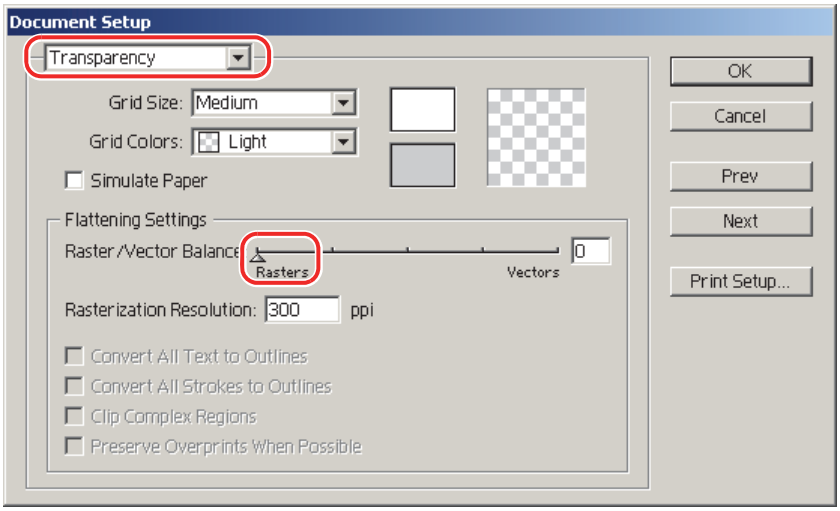
A jaggy contour occurs in characters to which a transparent effect is applied

When you enlarge an image on the RasterLink6 side, there may be a case where a jaggy contour occurs in characters to which a transparent effect is applied.
To avoid such a trouble, set the items of “Document Setup” of Adobe Illustrator as follows.



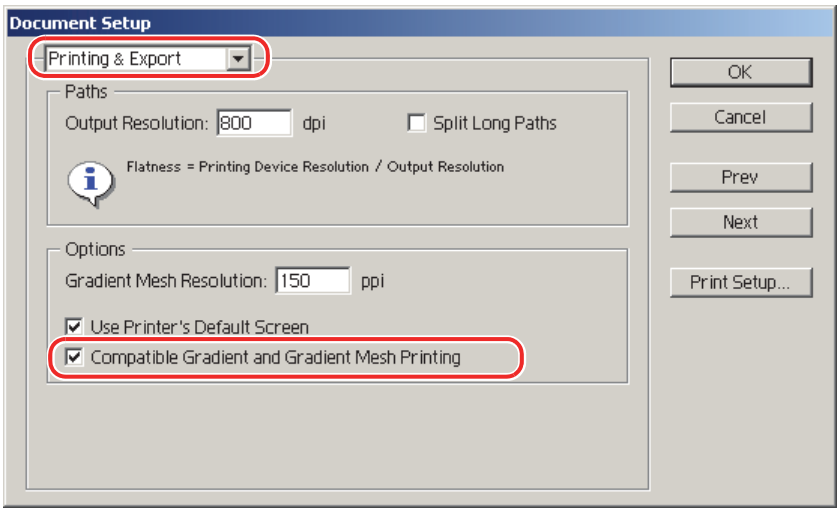
● Some objects that are applied transparency effect have unnecessary lines or some parts of the object do not appear

Some complicated objects and photos that are applied transparency effect may have unnecessary lines or some parts of the objects.
To avoid this, set items of “Document Setup” menu of Adobe Illustrator as follows.



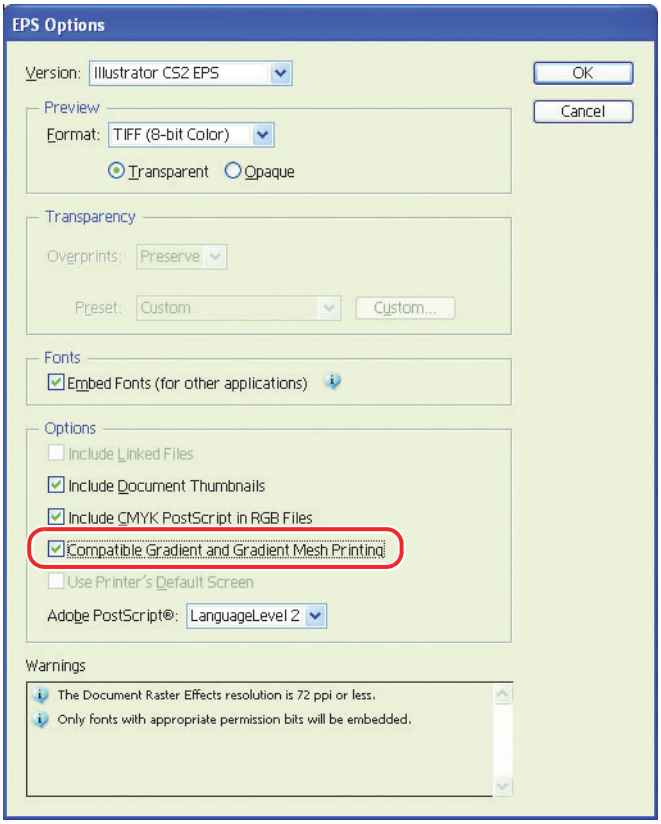
● Gradation Tone Jump is prominent

To avoid this, set items of “Document Setup” menu of Adobe Illustrator as follows.



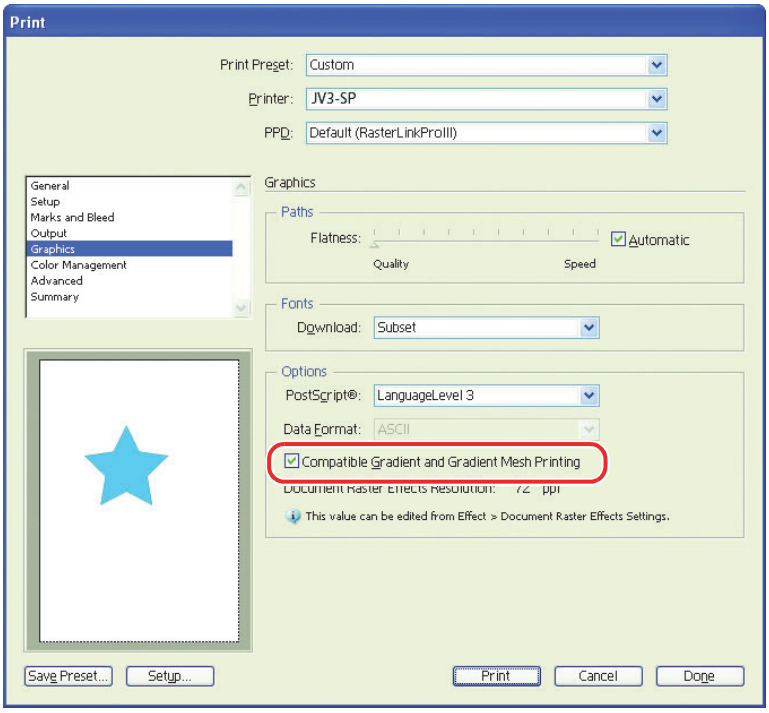
● Illustrator CS, CS2, CS3 (When saving EPS)

When saving EPS, set “EPS Options” as follows.



● Illustrator CS, CS2, CS3 (When printing)

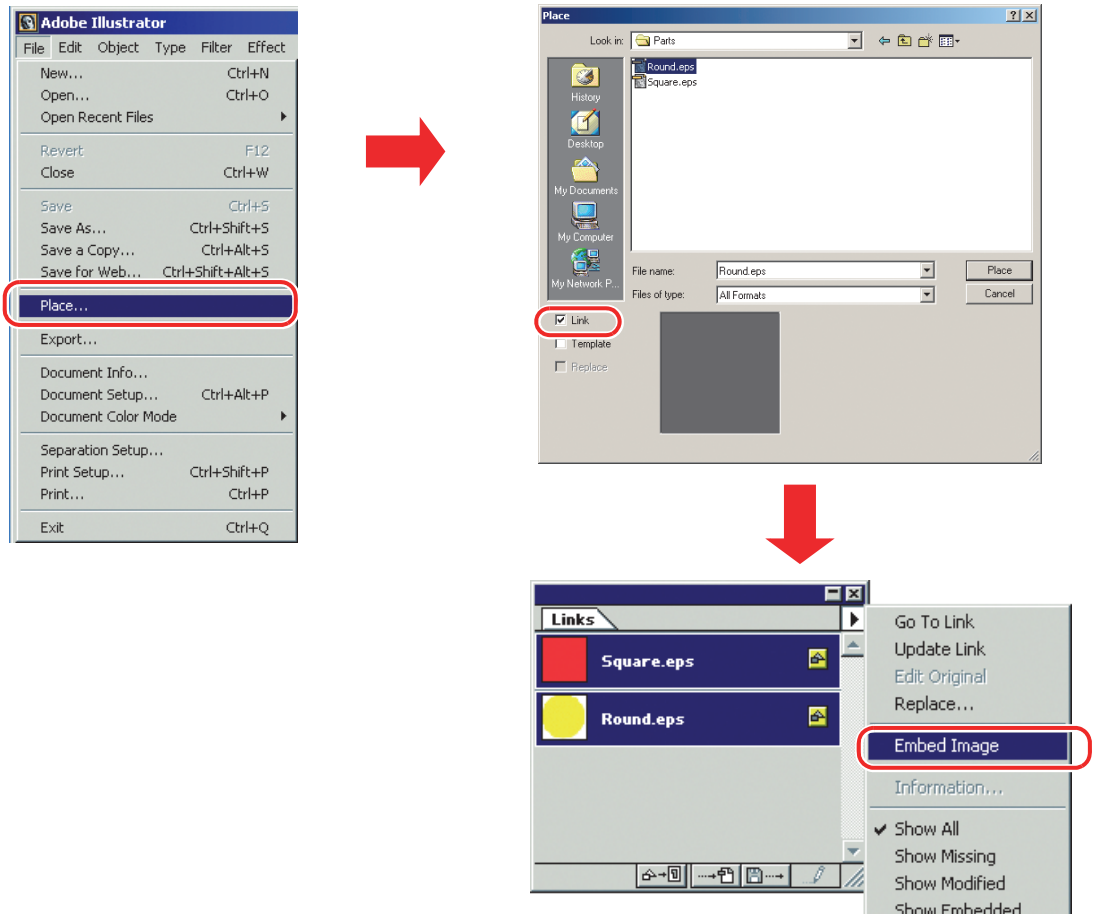
When outputting the printer driver, set “Print” as follows.



Important! • When setting the data to replace gradation, do not check “Compatible Gradient and Gradient Mesh Printing”. It disables color replacement.

Linked data isn't printed

Linked images placed on the data of Adobe Illustrator may not be printed or the colors are not printed properly.
In this case, embed the image on the data of Adobe Illustrator.



The surrounding image of EPS file saved by Illustrator 10 is cut off

When arranging rectangular object with thin line on surrounding part, the line may become thinner or may be printed nothing.
It occurs because the whole image size is rounded by integer Point and is clipped.

In Illustrator 10, arrange dummy object around the image and save as EPS, or set a little larger PostScript custom page size in printing with printer driver.

The image size differs between on application and on RasterLink6

The image size created by application does not correspond completely to the image size displayed on the job editor of RasterLink6. It occurs by following causes.

(1) **Limitation of the image size set by PostScript language**
Application usually sets the size by mm or inch, but PostScript language sets the number by Point (1/72 inch).
Although image object size is measured by Point of real number, the whole size in saving EPS file or PostScript custom page size in printing with printer driver is eventually changed to the Point of integer.
It causes conversion error up to 1 Point (0.353 mm).

(2) **Effect of line width**
The object size displayed on [Information] window of Illustrator does not include the line width.
Actual object size includes the line width.

(3) **Effect of the calculation of size by specific application**
As Illustrator 10 described above, specific size calculation by application effects on the size.

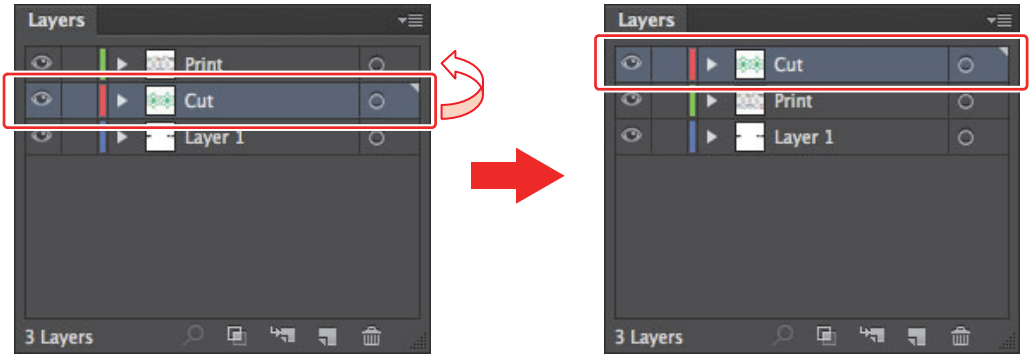
By the reasons above, it causes about 1 Point error even when printing with original size. Therefore, when scaling by RasterLink6, the error widens (In case of 1 Point error, widening 1000% causes 3.5 mm error).
If considering the accuracy of output size, note the followings to reduce the error.

• Print by original size as possible
• If scaling, set by % (do not set by mm or inch)

Data in the same place is cut twice

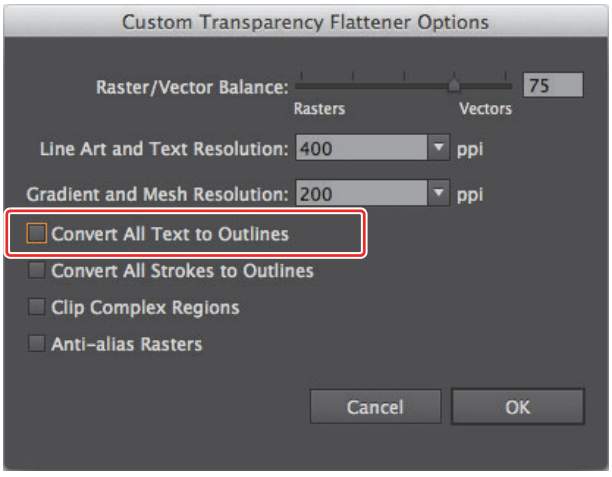
For data of Adobe Illustrator 9 or later to which a transparent effect has been applied, when Print & Cut is executed in RasterLink6, cut data may be cut twice.
In such a case, change the settings as follows by using Adobe Illustrator.

(1) Move the cut data on top.



When cut data and print data are in separate layers.

(2) Set “Convert All Text to Outlines” to OFF.



Caution about Mac OS X

Spooling from Mac OS X, it is enacted the following restrictions.

Print PDF documents

When printing PDF documents from Acrobat Reader ver. 5, [File Name] on the “Job List” turns into garbage. This problem is modified after ver. 6, print PDF documents using Adobe Reader ver. 6 or later.

Caution about using hot folder with Macintosh

In case canceling the file copying to the hot folder, the error occurs.

Most of all files canceled copying are ignored or moved to the error queue, however RasterLink6 may abend since spooling the file copied incompletely.
Do not cancel copying the file as far as possible.
With Mac OS X, abnormal phenomena may occur simply by clicking the open hot folder in the Finder.
When copying files, do not perform any unnecessary operations in the Finder.

When deleting the file from the hot folder by compulsion during copying, error occurs.

You can force to delete the file copying from the hot folder at Mac OS X. However, when doing these operation, the other files may be deleted or RasterLink6 may abend.
Do not delete the file copying to the hot folder.

About extension display on OSX

For OSX, the extension is not displayed if the checkbox of "Show all filename extensions" is not checked from [Finder Preferences]-[Advanced].

Improvement of the spooling speed when printing from the application software with Macintosh

Changing the output folder to hot folder, the spooling speed may be faster depending on the application software. Try the following steps.
The file can be spooled from application to the hot folder by following steps, however, error may occur depending on the application software. When the error occurs, clear the check box for “Save as File” of [Output Options] menu in the “Print” window.

Application software caused error

- **Illustrator 10**

  It is unstable to output the file.

- **Illustrator CS**

  Some files cannot be spooled.

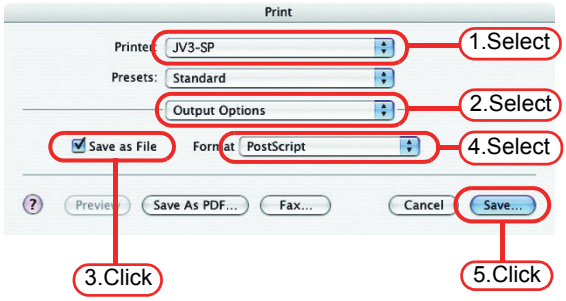
- **Photoshop 7**

  Some files cannot be spooled when does not change the file name to save.

1 **Open the “Print” window in the [File] menu with the application software.**

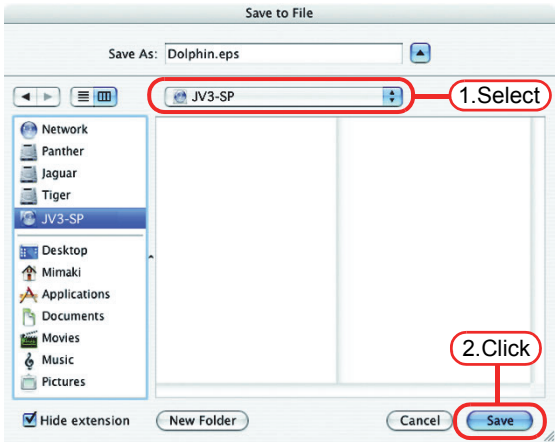
2 **Select the printer for RasterLink6 at “Printer;” menu.**

- Select “Output Options”.
- Check the box for “Save as File”.
- Select “PostScript” at “Format”.



3 **Click** Save .

4 **Specify the hot folder of RasterLink6 to output.**



5 **Click** Save .

RIP speed improvement method for images containing gradated objects

Where objects with complex gradation meshes, or very large numbers of gradated objects, are present inside an image, RIP processing will take time. In such cases, the RIP speed can be improved by changing the Illustrator settings.
It is usually recommended to remove a check mark against [Compatible Gradient and Gradient Mesh Printing]. If you want to specify a spot color as the color for gradation, put the check mark.
Try the following settings if the RIP speed does not improve.

● In cases where gradation meshes are heavily used or where objects with large gradation meshes are present:

Put a check mark against [Compatible Gradient and Gradient Mesh Printing.] in the Illustrator settings.

● In cases where gradations are heavily used for color filling or lines or where objects with large gradation are present:

Remove a check mark against [Compatible Gradient and Gradient Mesh Printing.] in the Illustrator settings.

- As you can infer from the above instructions, activation of the [Compatible Gradient and Gradient Mesh Printing.] setting has validity with regard to either gradated objects only or gradation mesh objects only.
  Change the setting according to which of the two the Illustrator's [Document information] window indicates is more heavily used.

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