RasterLink Pro5 TA

Software RIP

RasterLinkPro5 TA

Reference Guide

For GP / DM Series

This guide explains about features of RasterLinkPro5 TA for the Color Ink-jet printer “GP series” and “DM series”.

MIMAKI ENGINEERING CO., LTD.

TKB Gotenyama Building, Kitashinagawa, Shinagawa-ku, Tokyo 141-0001, Japan
Phone: +81-3-5420-8671 Fax: +81-3-5420-8687
URL: http://www.mimaki.co.jp/
E-mail: trading@mimaki.jp

Version 1.2
D202031-12

The kinds of manuals and how to use them

This product comes with following manuals.

Installation Guide

This manual explains how to install and set up RasterLinkPro5 SG/RasterLink Pro5 IP/ RasterLinkPro5 TA.

Network Connection Guide

This manual explains how to set computer to connect to RasterLinkPro5 via network. (This is provided in PDF file in the manual CD.)

Reference Guide

There are two kinds of reference guides.
One is for common settings to each printer and the other is for special settings to each printer.
They explain necessary setting items of the functions and operation in order to use RasterLinkPro5 SG/RasterLinkPro5 IP/RasterLinkPro5 TA.
Read the proper reference guide for your printer.
(This is provided in PDF file in the manual CD.)

you are now reading this manual.

Firmware Update Operation Manual

This manual explains how to use the update software for MIMAKI printer.
(This is provided in PDF file in the manual CD.)

Notice

- It is strictly prohibited to write or copy a part or whole of this document without our approval.
- The contents of this document may be subject to change without notice.
- Due to improvement or change of this software, the description of this document could be partially different in specification, for which your understanding is requested.
- It is strictly prohibited to copy this software to other disk (excluding the case for making backup) or to load on the memory for the purpose other than executing it.
- With the exception of what is provided for in the warranty provisions of MIMAKI ENGINEERING CO., LTD., we do not assume any liability against the damages (including but not limited to the loss of profit, indirect damage, special damage or other monetary damages) arisen out of the use or failure to use of this product. The same shall also apply to the case even if MIMAKI ENGINEERING CO., LTD. had been notified of the possibility of arising damages in advance. As an example, we shall not be liable for any loss of the media (works) made using this product or indirect damages caused by the product made using this media.

About this Instruction

This manual explains how to operate RasterLinkPro5 TA for printing ink jet printer “GP series” and “DM series”.

Notations

Menu items are enclosed in quotation marks like “Full Color”.

Buttons in dialog box are framed like Close .

Symbol

NOTE ! indicates a caution you should pay attention.

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 RasterLinkPro5 TA. Once data in any format from application software such as Adobe Illustrator is spooled in RasterLinkPro5 TA, it is registered in RasterLinkPro5 TA and becomes a job.

Scan: “Scan” on the RasterLinkPro5 TA means the head moving direction (Y direction) of printer.

Feed: “Feed” on the RasterLinkPro5 TA means the media moving direction (X direction) of printer.

Table of Contents

Editing the Job

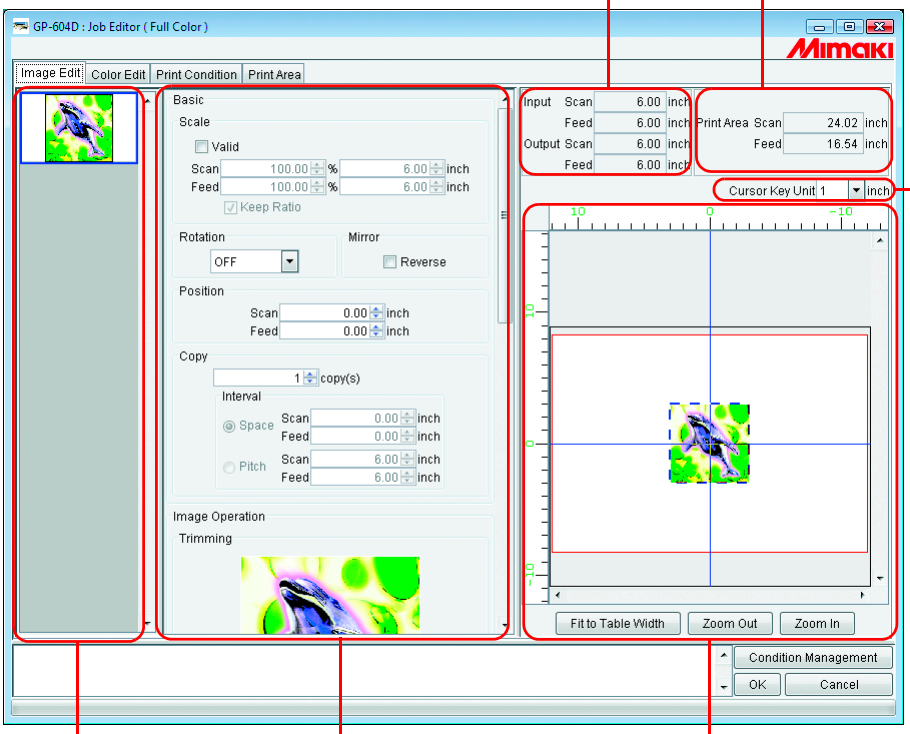
This chapter explains how to edit the Job.

To edit the Job, open the “Job Editor”. For opening method of the “Job Editor”, refer to Common features for every printer, Reference Guide.

Editing the Image

The size of the image, its output position, etc. will be designated.

“Image Edit” Window



[Image Size]
Indicates the image size of the job and the output size of the image that has been edited.

[Print Area]
Indicates the maximum printable area.

[Step of the cursor key]
Designates the amount of movement of the image when it is moved using the keyboard.
(☞ P.18)

[Thumbnail List]
Previews the original image of the job.
(☞ P.11)

[Setting Screen]
The size, position, etc. of the job are set. The items that can be set are different depending on printer.

[Layout Preview]
Previews the image to be printed on the media.
(☞ P.12)

Thumbnail List

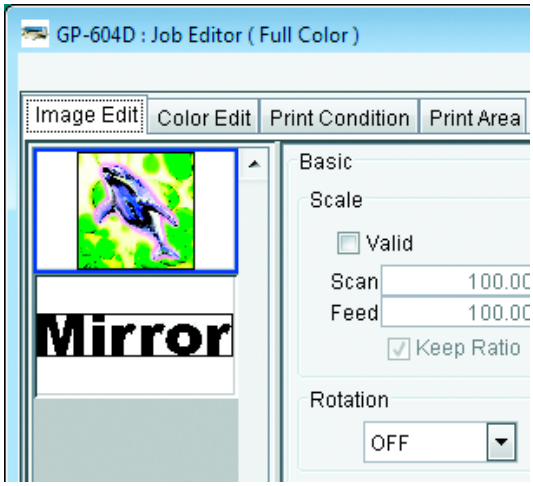
This function lists the thumbnail images of the jobs that can be edited.

This function does not update the thumbnail image in the file preview area even if you edit the image.

Selection among jobs are changeable by clicking an image.

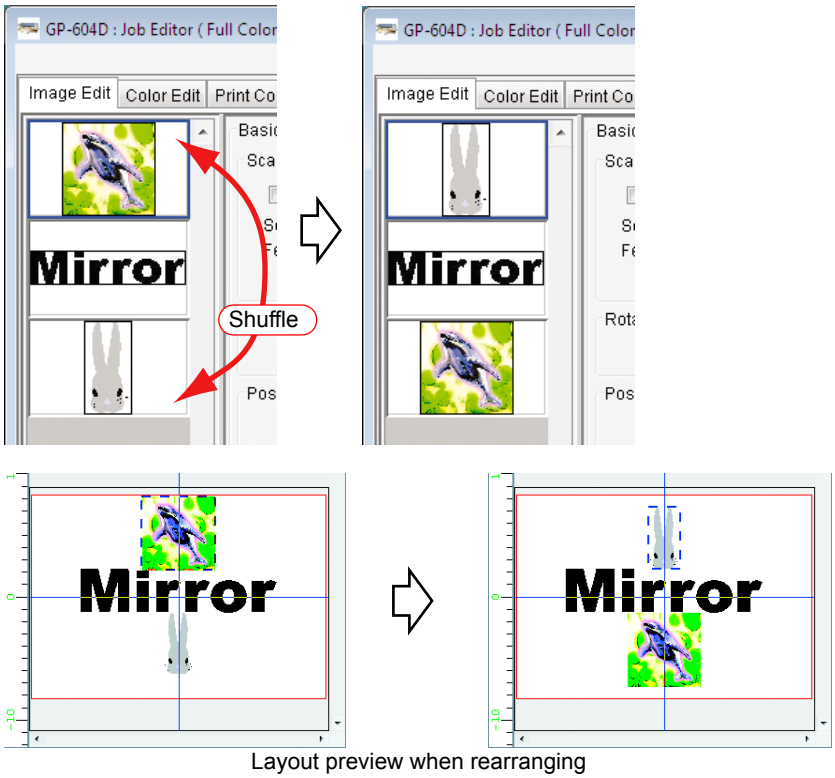
Two or more jobs selectable by clicking each of them while pressing the Ctrl key.

Clicking outside the thumbnails deselects all jobs.



Shuffle multiple jobs

To change the order, select the thumbnail of the job to change, and reposition it with drag and drop.



Layout preview when rearranging

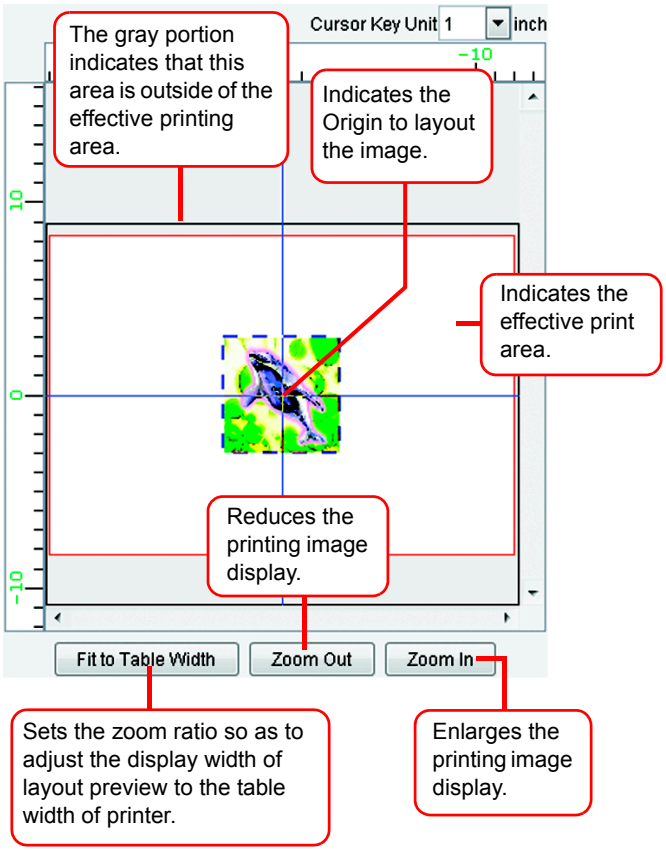
Layout Preview

Display the result of an image.

Job is selectable by clicking it.

Two or more jobs selectable by clicking each of them while pressing the Ctrl key.

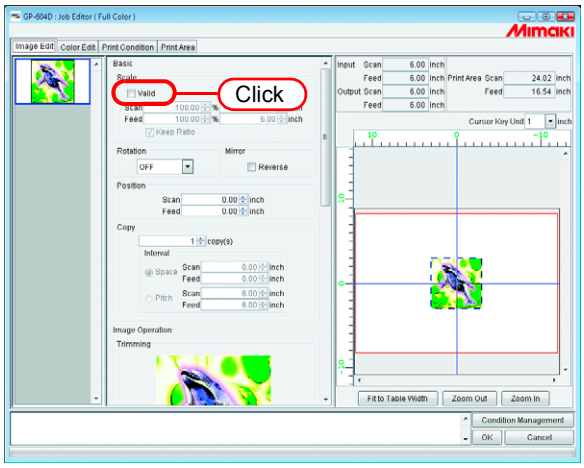
Click any point outside the jobs to cancel all the selection of any jobs.



To Print in Scale (Scale)

This function enables you to enlarge or reduce the image.

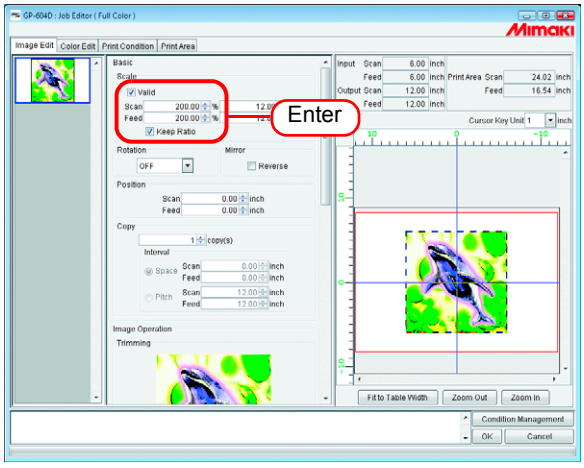
When you have not checked “Valid”, the image is printed with the size created in application software.



To Print at a Specified Ratio

Enter the ratio both in “Scan” and “Feed” directions.

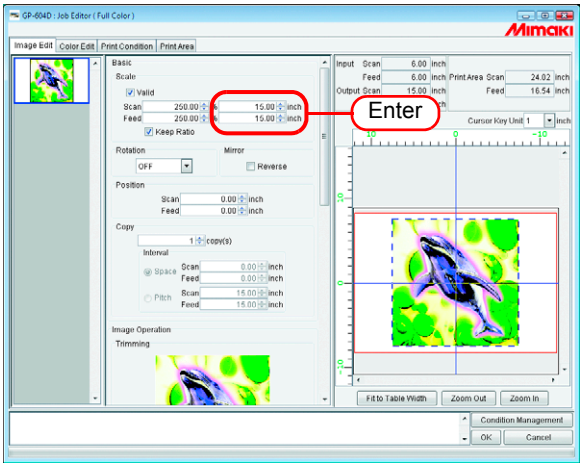
- If you right-crick on the value entry box, you can set the amount of increase or decrease of the up and down arrow buttons. You may also increase or decrease the input value using ↑ and ↓ keys on the keyboard.
- By checking “Keep Ratio”, and entering one value or the other, it controls the other value to be automatically rectified with the same ratio.
- When you set it to 100%, the image is printed with the size of the image that you prepared by application software.



To Print an Image with a Specific Size

Enter the image size.

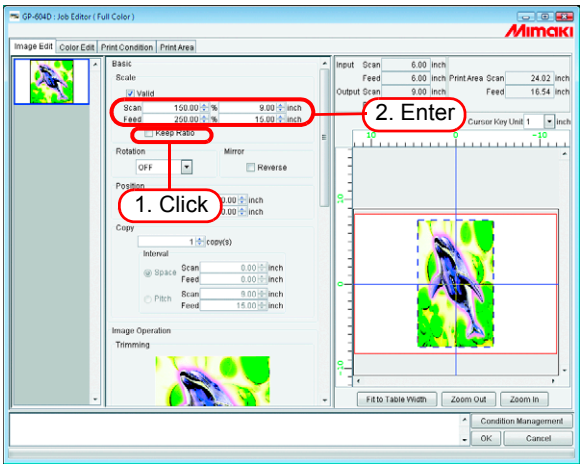
- By checking “Keep Ratio”, and entering one value or the other, it controls the other value to be automatically rectified with the same ratio.
- The unit of size changeable by optional setting. (☞ Reference Guide Common features for every printer P.98)



To Print at Different Ratio in Scan and Feed directions

Deselect “Keep Ratio”.

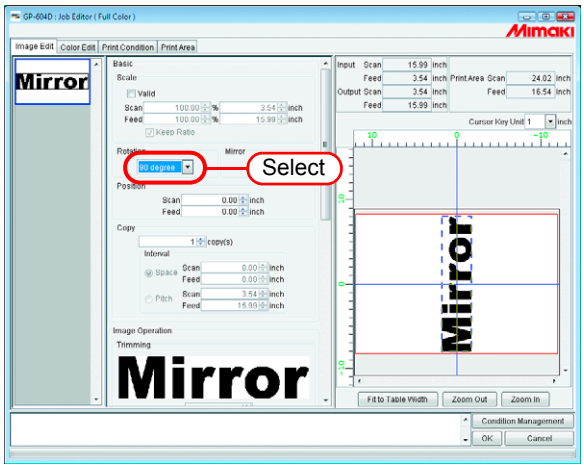
Set scale values in scan and feed directions, respectively by ratio or by value.



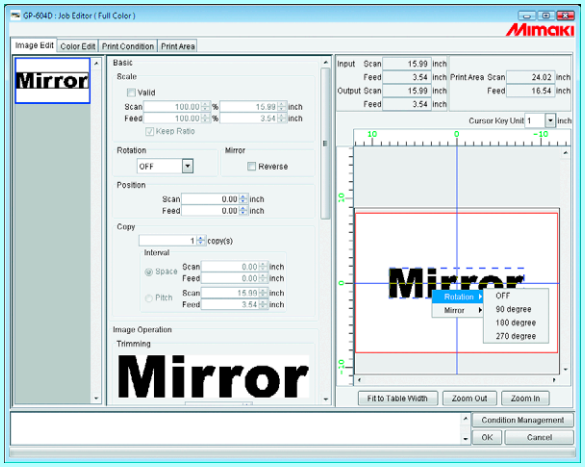
Rotating Print Data (Rotation)

Set the rotation angle.

Select Rotation Angle.



The image is also able to rotate by the following procedure.
Select a job to be subjected to rotation, and right-click in the Layout preview area.
Select Rotation angle from the pop-up menu.

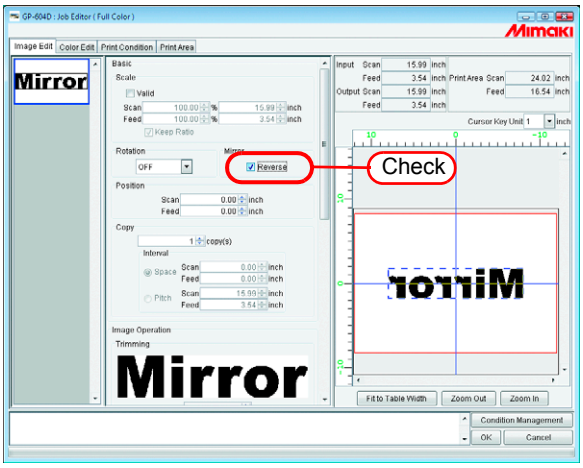


Printing a Mirror Image of the Print Data (Mirror)

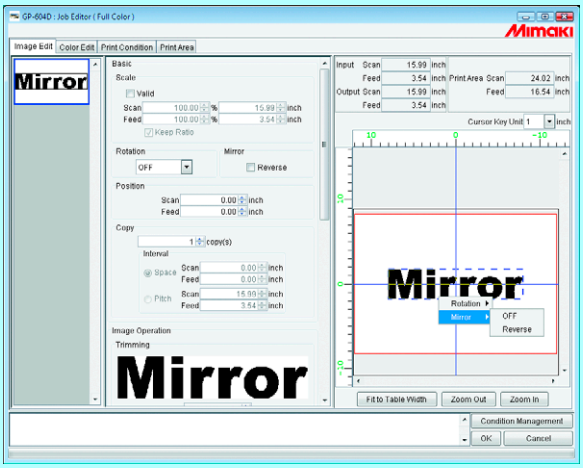
Print mirror images.

The created image is mirrored only in scan direction.

Check “Reverse”.



Mirror processing also able to by the following procedure.
Select a job to be subjected to be mirrored, and right-click in the Layout preview area.
Select “Reverse” from the pop-up menu.



To Move an Image to Any Part of Media (Position)

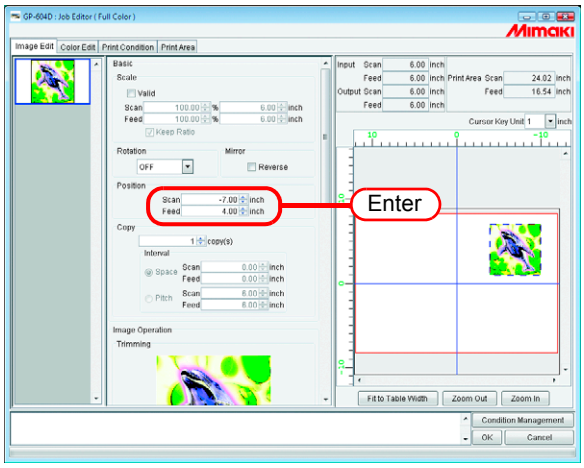
The image can be moved to any part of media and print it.

NOTE !

- If a part of the image is projected from the effective drawing, it cannot be printed.
- When the image is completely projected from the effective drawing, the setting cannot be saved.

Moving an Image by Designating Numeric Values

Enter the moving amount in “Scan” or “Feed” moves.



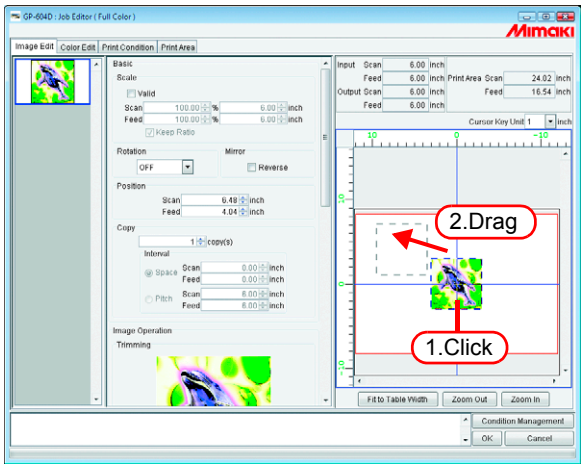
Moving an Image by the Mouse

The image is able to drag in the layout preview area and locate it in any desired position.

Click an image in the layout preview to select a job.

The selected image is surrounded by a blue dotted line.

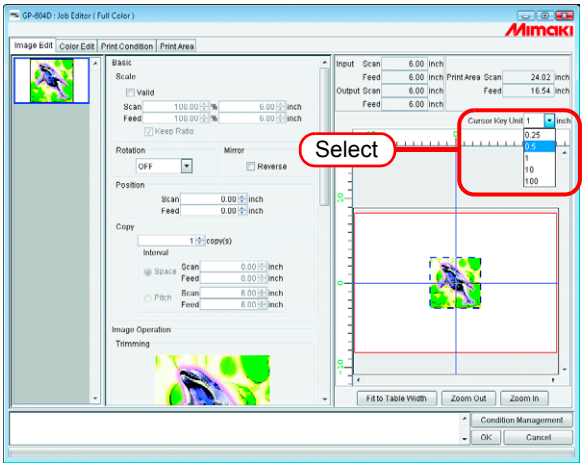
Drag the image to the target position



Moving an Image on the Keyboard

The image can move by pressing an arrow key on the keyboard.

1 At “Cursor Key Unit”, select the value of a step of the cursor moved by pressing an arrow key on the keyboard.

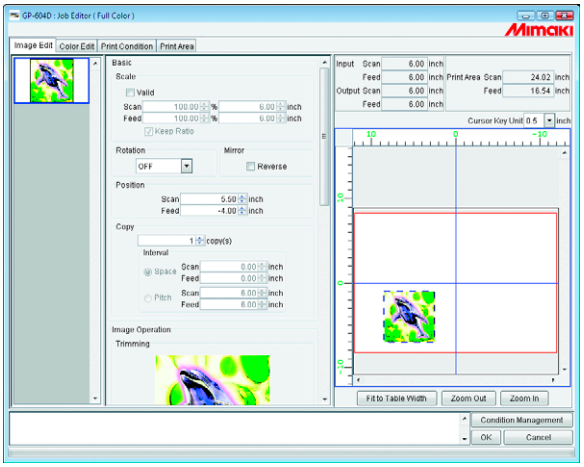


2 Click an image in the layout preview to select a job.

The layout preview is surrounded by a blue rectangle.

Layout previews can also be selected by repeatedly pressing the Tab key on the keyboard.

With a layout preview selected, press the arrow keys on the keyboard to move the image.



Copying Print Data (Copy)

Print the same image two or more times.

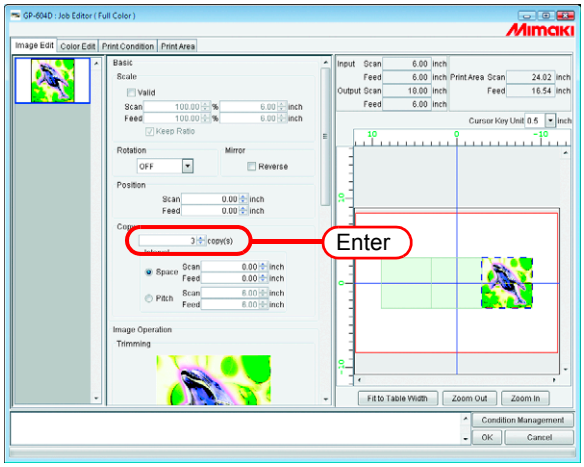
Ordinarily, print data is copied in feed direction.

When there is a space that permits printing an image in the scan direction, the image is copied (subjected to nesting) in the scan direction.

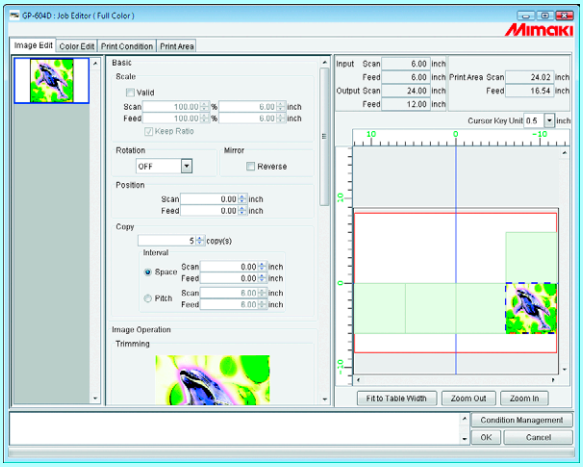
By setting value at Interval is enabled, margins are set between images.

NOTE ! When multiple jobs are edited at the same time, the copy setting cannot be performed.

Enter Copy count.



The copied images are automatically nested.



NOTE ! The number of nested sheets is determined by the current position setting and valid print width and internals.

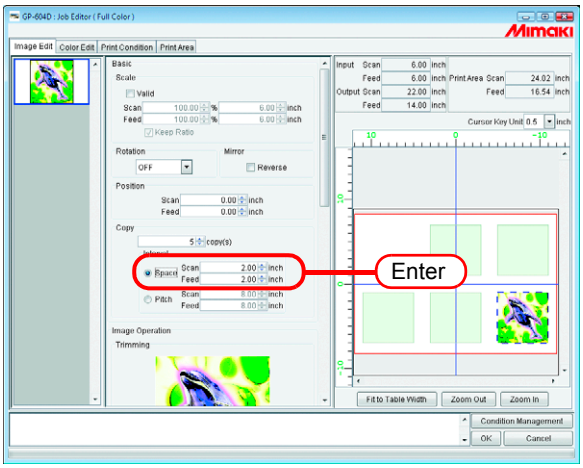
Setting Interval

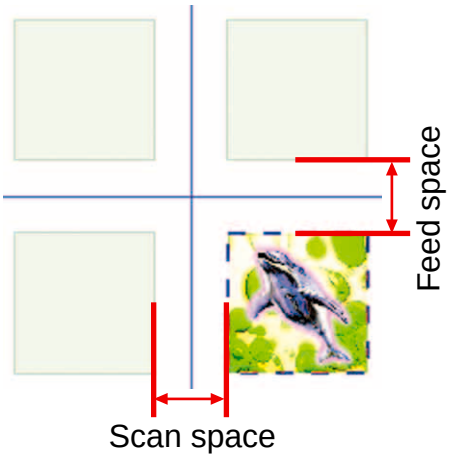
When copies are set and printed, it is difficult to determinate the boundary between consecutive images.

Therefore, set the intervals so that the dividing line can be checked.

Space

Select “Space” and enter the amount of spaces both in scan and feed direction.

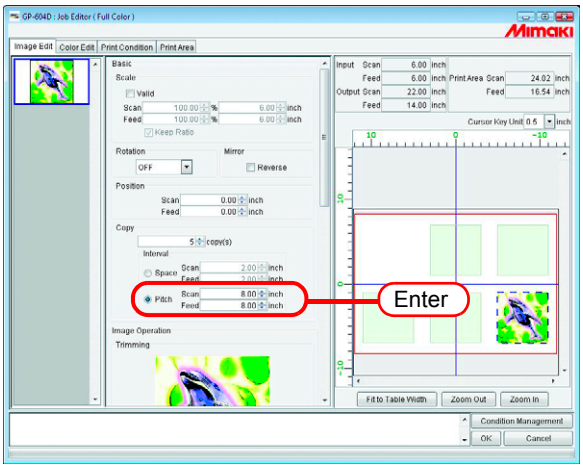


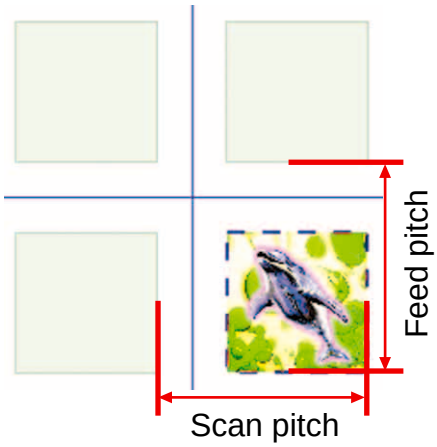


NOTE ! Depends on the image, spaces may be added to outside of the images during RIP process.
In that case, the spaces will be inserted even if setting the margin to “0”.

Pitch

Select “Pitch” and enter the amount of pitches both in scan and feed direction.

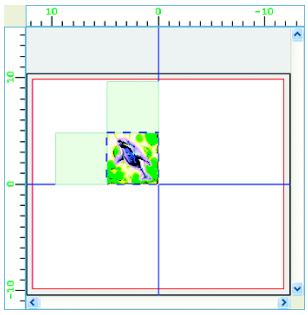
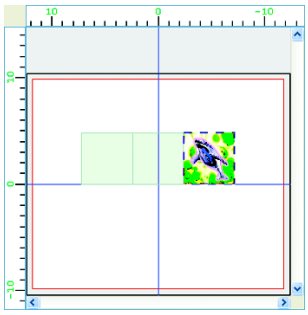
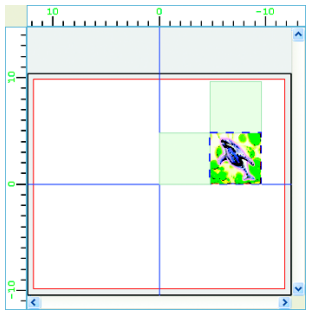
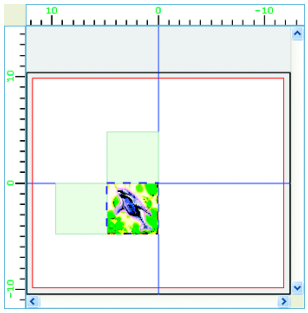
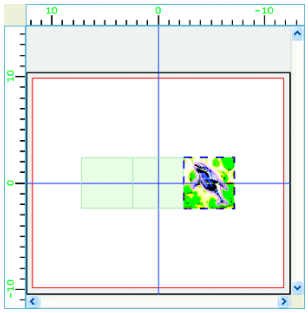
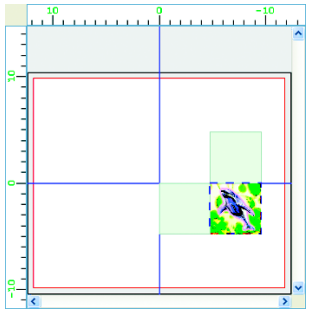
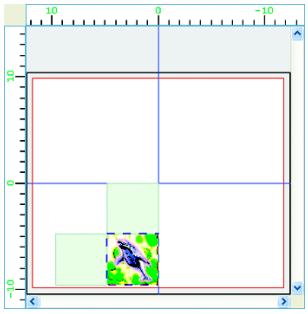
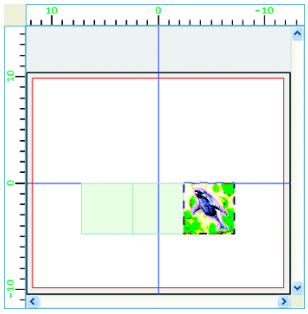
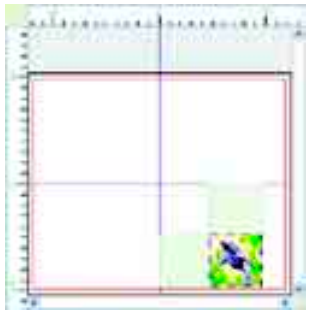




Relationship between the layout setting and the nesting

The number of the nesting and the positioning are determined depending on the “Layout setting” (☞P.131).

Refer to the table in the following page for further detail.

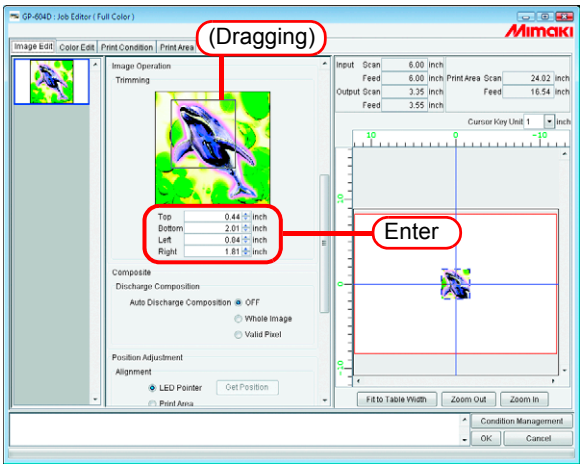
Scan direction / Feed Direction	Snap to front edge	Fit on Center	Snap to back end
Snap to front edge			
Fit on Center			
Snap to back end			

Trimmed printing (Trimming)

Adjusts the scope of printing of the image.

Enter the amount of trimming to “Top”, “Bottom”, “Left”, and “Right” columns.

You may also set the range of the trimming by dragging inside the displayed image.



You may disable the trimming by entering “0” to each trimming amount or by clicking the image in the trimming area.

NOTE ! Scale and rotation are applied to images after trimming. Therefore, even if the scale and rotation settings are changed, the trimming position does not change. Furthermore, the trimming value is shown at the original size before scale is applied.

Print Information Label Printing

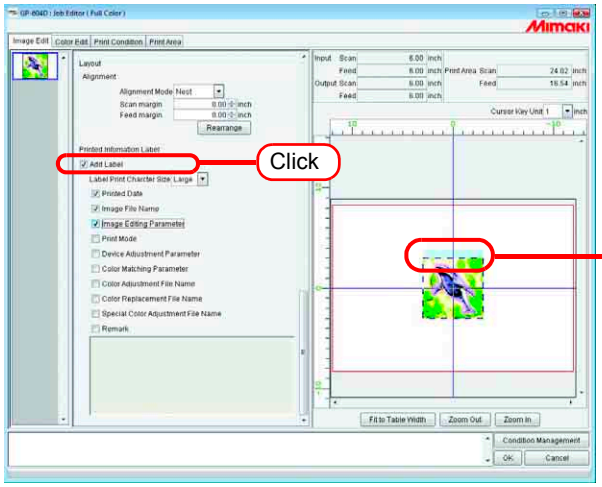
Print information label will be added at top left of a job when printing.

> **NOTE !** If the length in the scan direction is 1 inch (25.4 mm) or less, print information label cannot be added to the printout. If the length in the scan direction is short, print information label may not be printed completely.

Check “Add Label”.

Check items to be printed as label.

Up to 64 arbitrary characters can be entered in the “Remark”.



> When “Add label” is checked, output size will include print information label.

Printing Register Marks

NOTE !

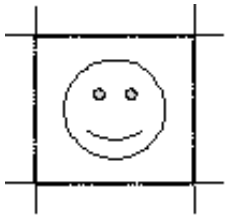
- When “Add Label” is set, the “Register Mark” setting is invalid. If “Add Label” is set with the “Register Mark” selected, the “Register Mark” will be set to “OFF”.
- If “Print Cut Line” is selected with the “Mark Shape” of “Register Mark” set to other than “OFF”, “Mark Shape” of “Register Mark” will be set to “OFF”.

Prints register marks for cutting around the images.

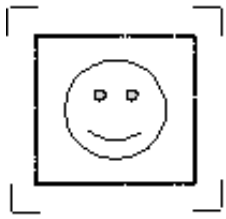
The register marks are used by a cutting plotter, for example, for cutting images printed using this system. That is, it is by reading the register marks that the cutting plotter can determine the exact position and size of the images.

The printing specifications for the register marks placed around an image are as follows:

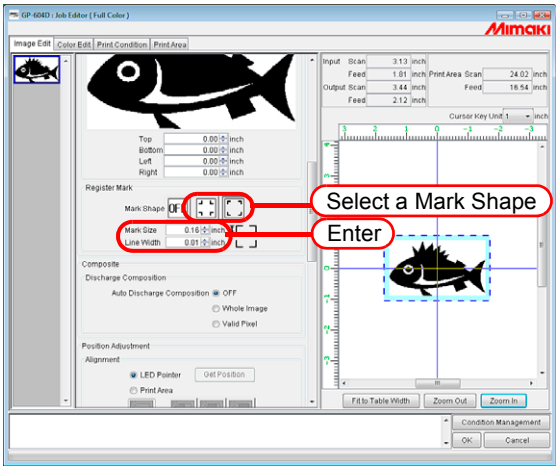
Line width : 0.3 to 1.0 mm
Register mark length : 4.0 to 40.0 mm



Bleed mark



Trim mark



Using discharge liquid simultaneously with color inks (Discharge Composition - GP-604D, GP-1810D)

Outputs discharge liquid simultaneously with color inks.

For the print settings using the discharge liquid, see Reference Guide For Discharging included with this product.

> **NOTE !** The setting can be made only in the cases with the following condition:
> In the Print Condition (☞ P.111), the ink-set is not “Discharge”.

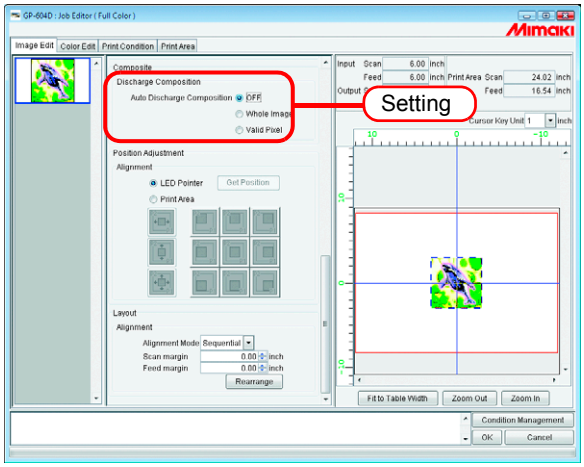
1 Set the outputting method of the discharge liquid.

[Auto Discharge Composition]

“OFF” .....The discharge liquid is not output.

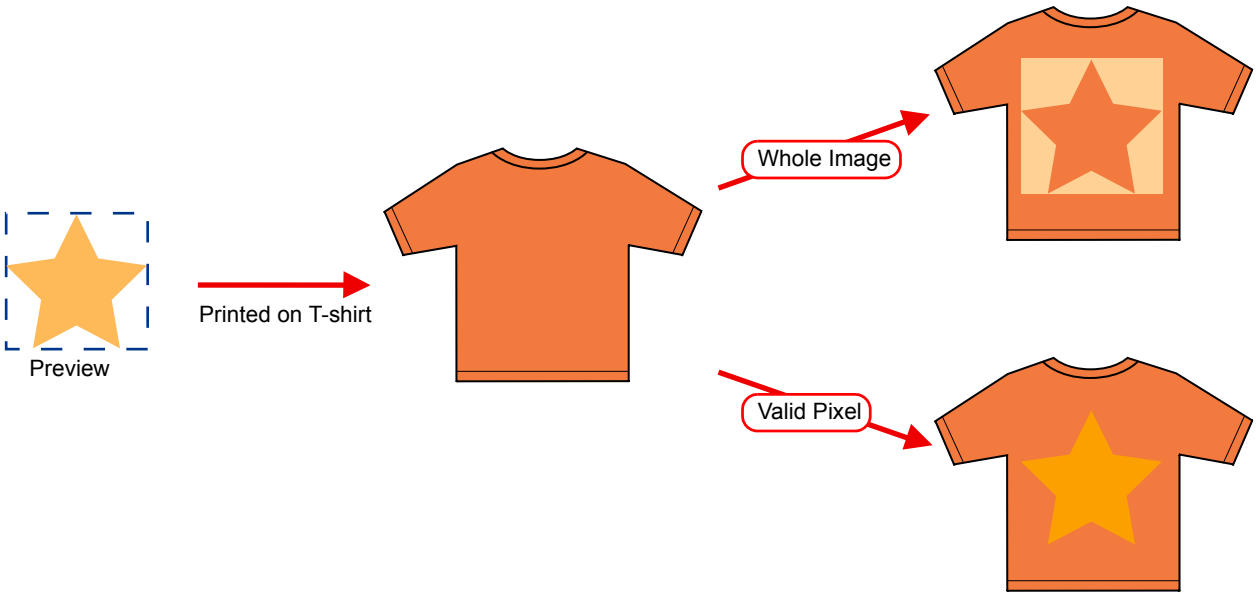
“Whole Image” ....The discharge liquid is output in the same size and the shape as the dotted lines surrounding the image of the layout preview.

“Valid Pixel” .....The discharge liquid is output only for colored portion inside the image.



An Example of Discharge Composition

The example of the image shown as below on the layout preview is output and treated with respective setting.



Getting LED pointer position and position adjustment of the job (GP-604 Series)

Get the position of LED pointer from the printer, and designate the location of printing data precisely.

Set the LED pointer by printer beforehand.

NOTE!

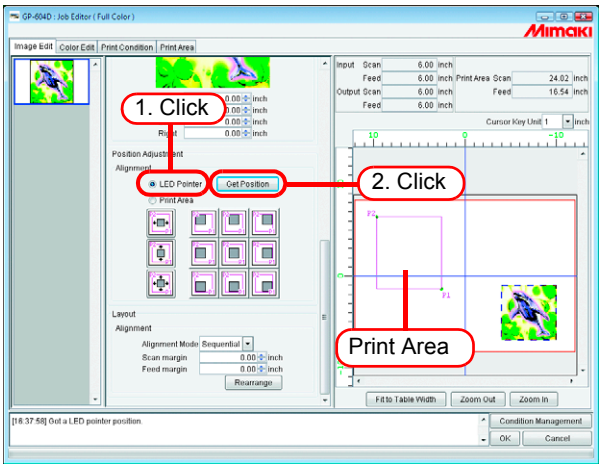
- In case no job is selected, Get Position button is ineffective.
- In case the output port is not selected “IEEE1394”, Get Position button is ineffective.
- When you have selected two or more jobs or you have set the number of copies to two or more, the position of the LED pointer cannot be acquired.
- When you have not set a printing origin or print area by GP-604, set the maximum print area [P1 (0,0), P2 (610, 420)] as the initial value.
- Various settings for the LED pointer are available only when you have obtained the position of the LED pointer.
- When no LED pointer cannot be obtainded, check the following:
  1) Printer is ON.
  2) The printer is connected to the PC with IEEE1394 cable.

Get the position of LED pointer from the Printer

1 Click the “LED pointer”.

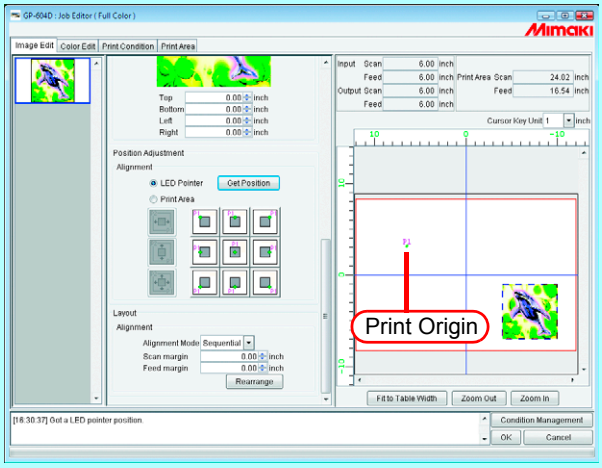
Click Get Position .

The position of the LED pointer is acquired and is displayed in the print area view.



When the print area is acquired, the coordinate positions of P1 (origin) and P2 (the coordinate value from the origin) are displayed.

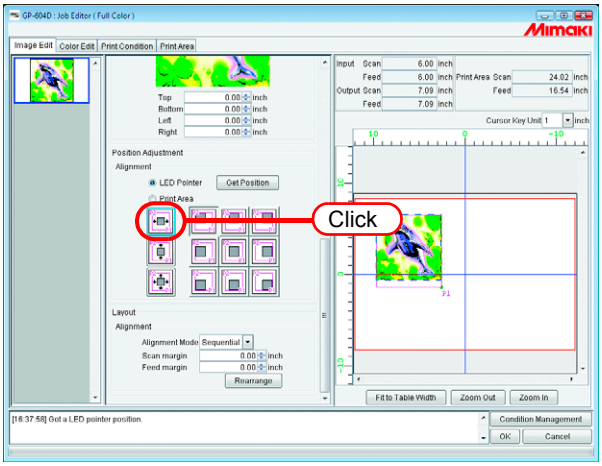
When the printing origin is acquired, only the coordinate position of P1 (origin) is displayed.



Adjust the Width of the Image to the Width of Print Area

Click Scan Direction Fit.

Adjust the width of the printing data to the width of the print area.

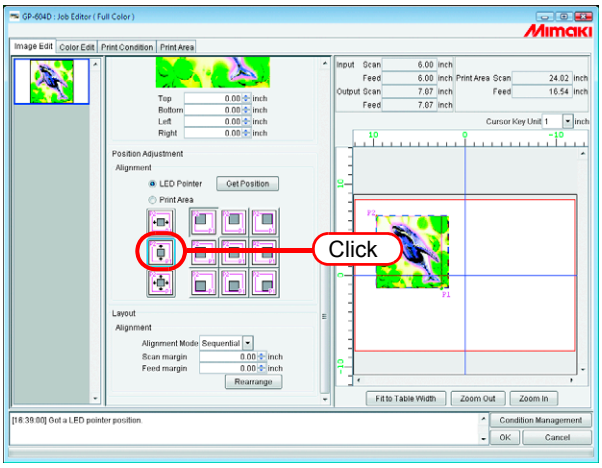


The image can be enlarged or reduced at the same ratio.
"Keep Ratio" of "Scale" is automatically checked.

Adjust the Height of the Image to the Height of the Print Area

Click Feed Direction Fit.

Adjust the height of the printing data to the height of the print area.

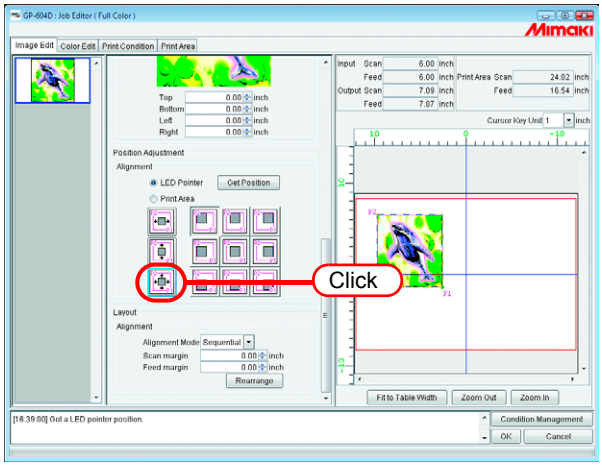


The image can be enlarged or reduced at the same ratio.
"Keep Ratio" of "Scale" is automatically checked.

Adjust the Size of the Image to the Print Area

Click Both-Direction Fit .

Adjust the width and height of the printing data to the width and height of the print area.



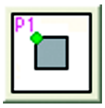
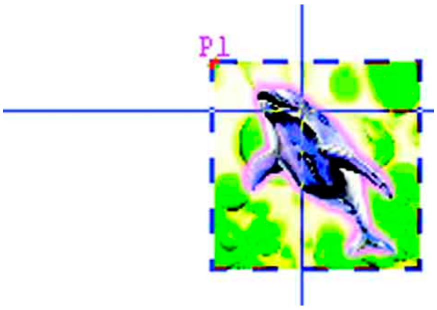
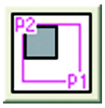
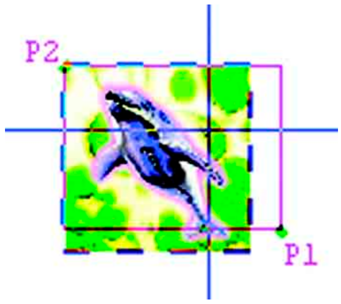
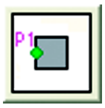
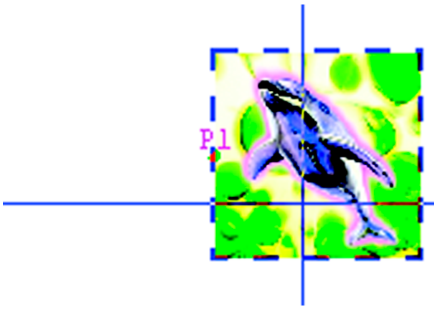
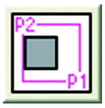
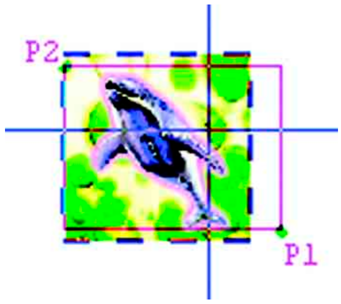
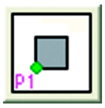
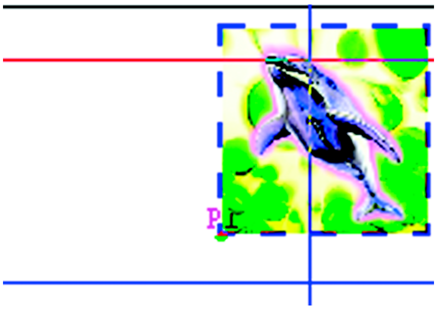
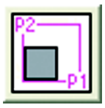
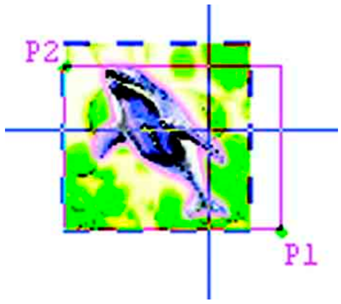
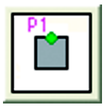
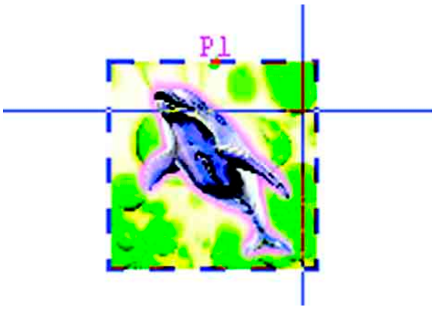
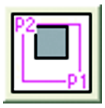
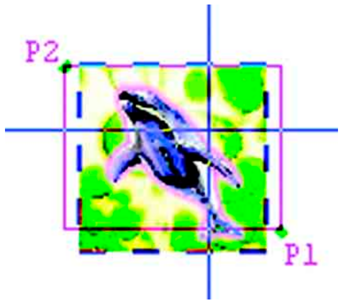
The image can be enlarged or reduced by setting different ratios.
“Keep Ratio” of “Scale” is automatically unchecked.

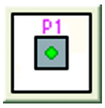
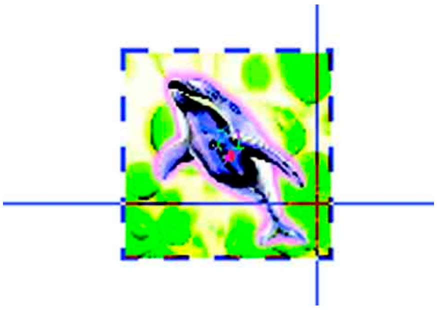
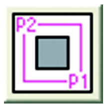
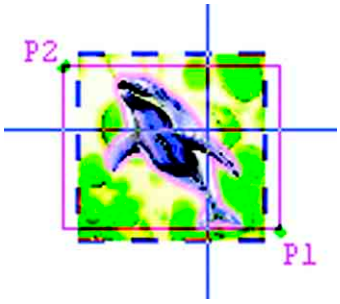
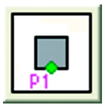
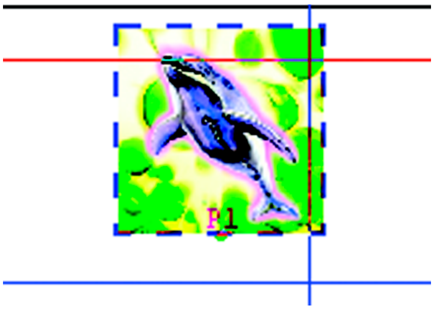
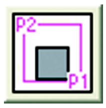
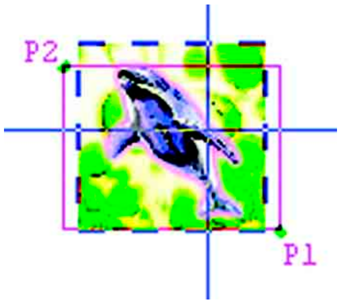
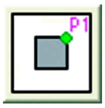
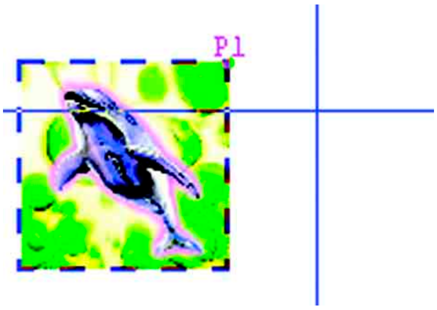
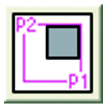
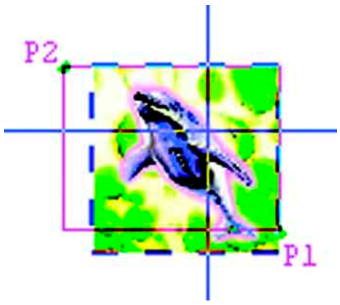
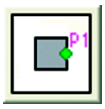
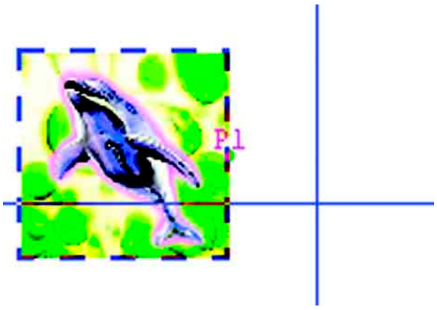
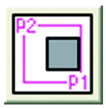
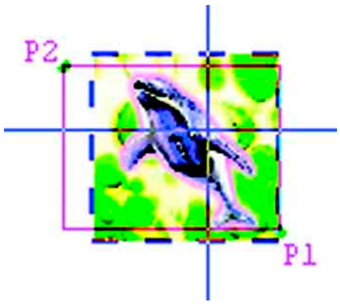
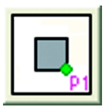
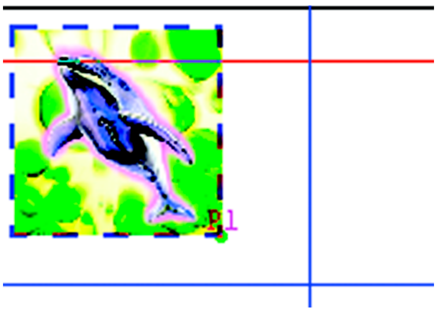
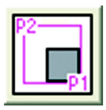
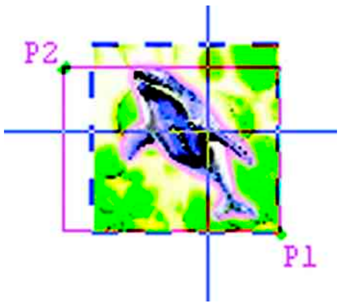
NOTE !

- Fit the image to the print area only settable when the print area has been acquired
- Click Rearrange to revert the LED pointer setting to the default setting. In case “Valid” is effective in the “Scale”, uncheck the box.

Designate the Location of Job

The job can be located in nine ways according to the printing origin or print area.

LED pointer / Designation Icon	Printing Origin	LED pointer / Designation Icon	Print Area
			
			
			
			

LED pointer / Designation Icon	Printing Origin	LED pointer / Designation Icon	Print Area
			
			
			
			
			

Adjust the location of job by specifying Image Origin Point (GP-1810 Series)

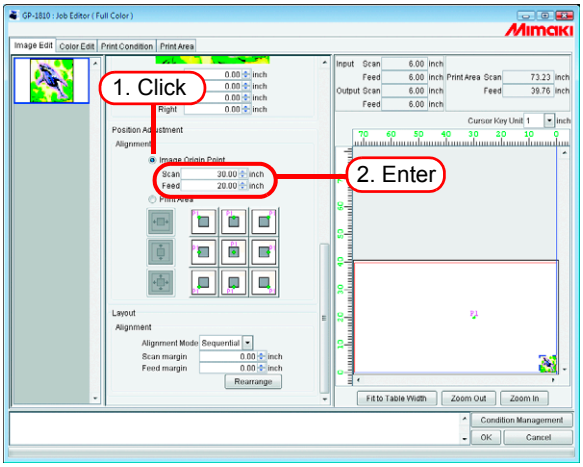
The location of job can be designated precisely by specifying Image Origin Point from printer origin.

NOTE ! A job with more than 2 copies cannot be aligned.

Specify Image Origin Point

Click “Image Origin Point”.

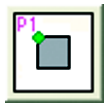
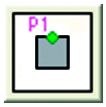
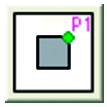
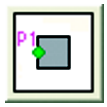
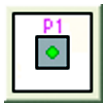
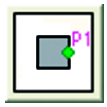
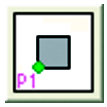
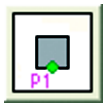
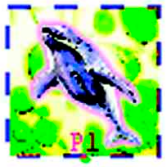
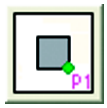
Enter coordinate point to “Scan” and “Feed”, as Image Origin Point.



- Image Origin Point is used to specify the coordinate point from printer origin.
- Image Origin Point displays P1 on the layout preview window.

Designate the Location of Job

The job can be located in nine ways according to Image Origin Point.

Design-ation Icon	Image Origin Point	Design-ation Icon	Image Origin Point	Design-ation Icon	Image Origin Point
					
					
					

Job positioning in the print area (GP-604 Series, GP-1810 Series)

Position the job at the exact location in the print area.

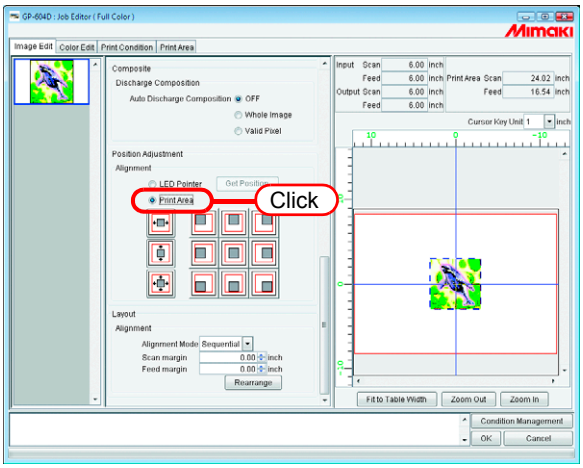
Depends on the print area size, enlarge or reduce the image.

NOTE ! A job with more than 2 copies cannot be aligned.

Enables the position adjustment in print area

Click “Print Area”.

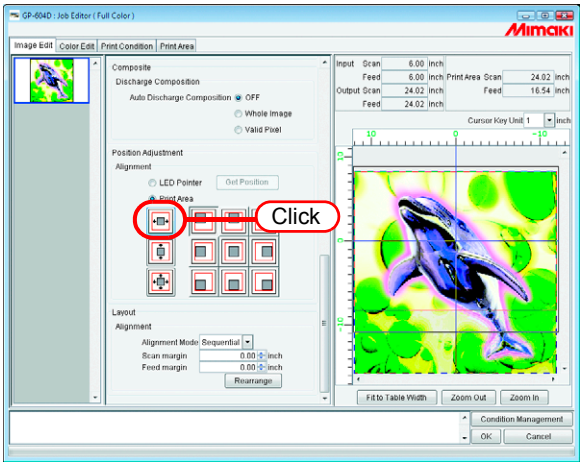
Enables the each button.



Adjust the Width of the Image to the Width of Valid Printing Area

Click Scan Direction Fit .

Adjust the width of the printing data to the width of the valid printing area.

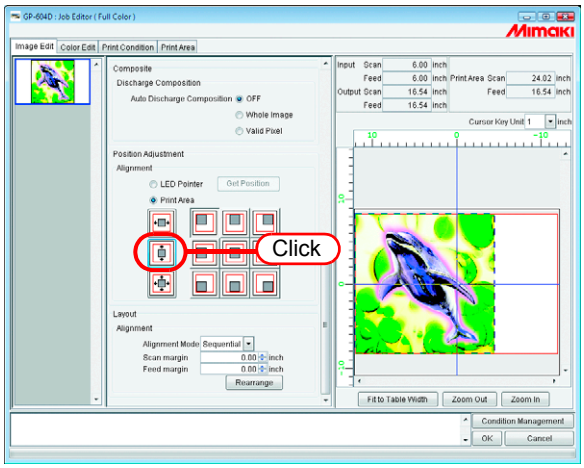


The image can be enlarged or reduced at the same ratio.
“Keep Ratio” of “Scale” is automatically checked.

Adjust the Height of the Image to the Feed Height of the Valid Printing Area

Click Feed Direction Fit .

Adjust the height of the printing data to the height of the valid printing area.

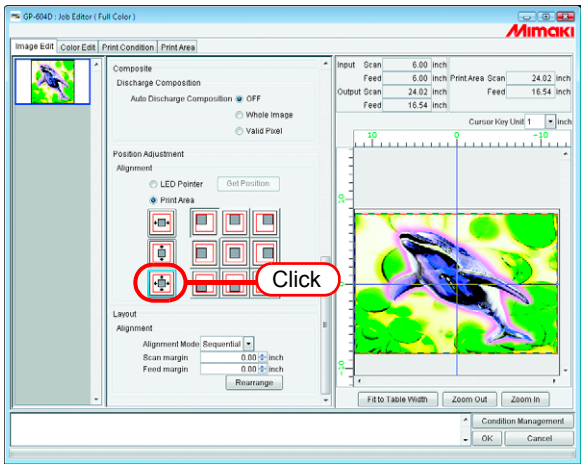


The image can be enlarged or reduced at the same ratio.
“Keep Ratio” of “Scale” is automatically checked.

Adjust the Size of the Image to the Valid Printing Area

Click Both-Direction Fit .

Adjust the width and height of the printing data to the width and height of the valid printing area.

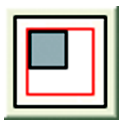
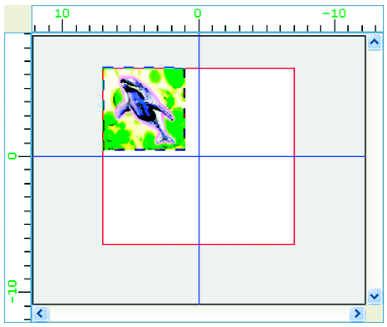
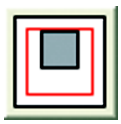
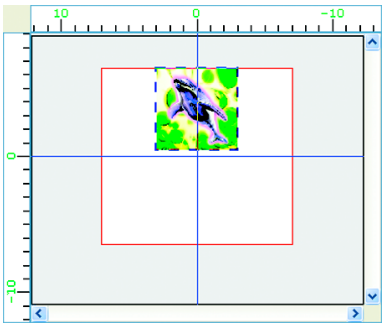
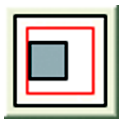
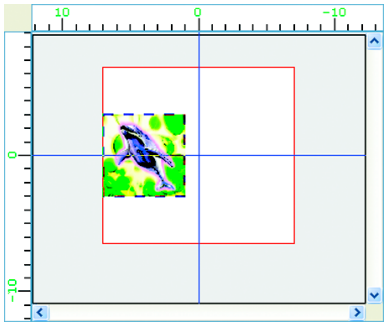
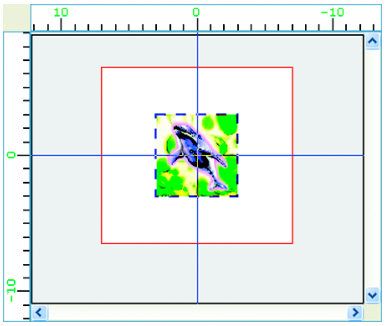
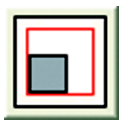
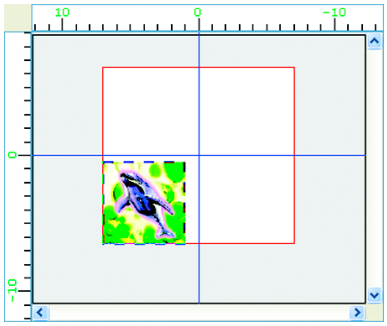
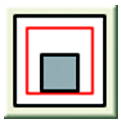
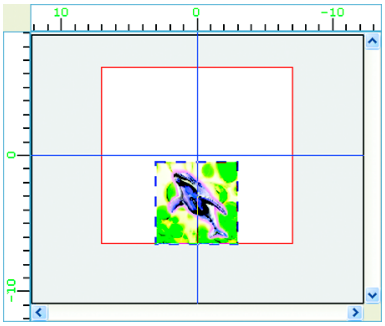


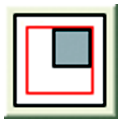
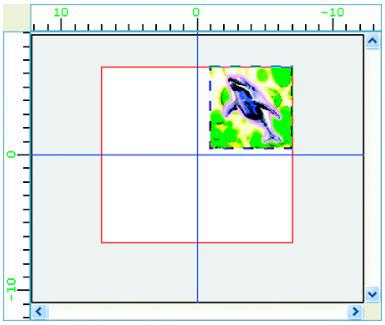
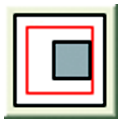
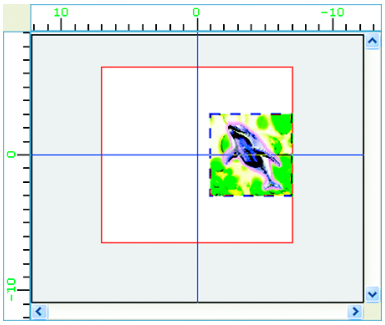
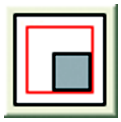
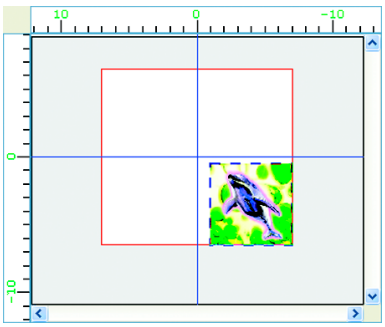
The image can be enlarged or reduced by setting different ratios.
“Keep Ratio” of “Scale” is automatically unchecked.

NOTE ! Click Rearrange to revert the setting to the default setting. In case “Valid” is effective in the “Scale”, uncheck the box.

Specify the exact location in the print area

Depends on the valid printing area, a job is capable of 9 different locations.

Desig-nation Icon	Job location	Desig-nation Icon	Job location
			
			
			

Desig-nation Icon	Job location
	
	
	

Print multiple jobs at the same time (Grouping)

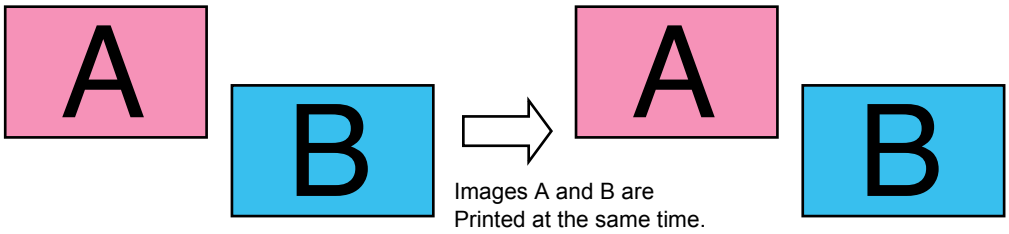
By grouping the jobs, you may output multiple jobs at the same time.

> NOTE ! When you arranged jobs for which different Print Conditions have been set, the Print Condition for the first job is applied to the other jobs.

There are two types of grouping.

Arranged(GP/DM Series all model)

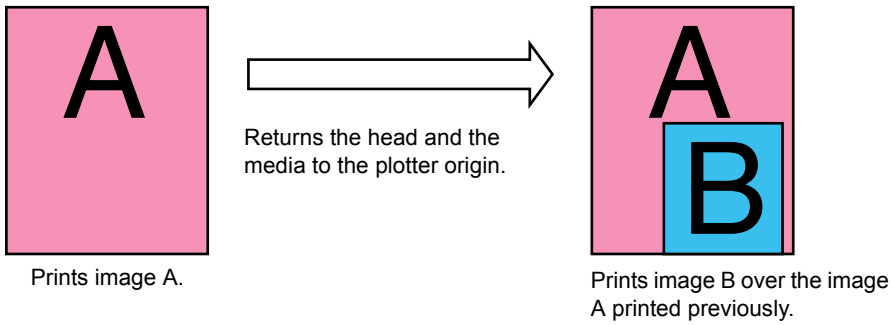
All images are printed collectively at once.



Composite (GP-604S)

After outputting 1 image, returns the head and the media to the plotter origin and prints different image.

This enables to print the image over the previous one.



How to designate “Arranged”

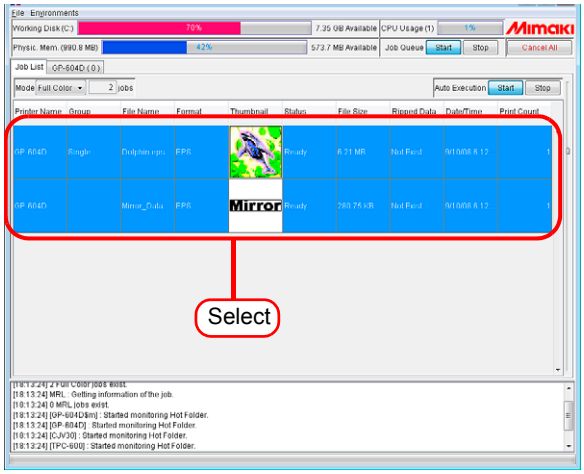
NOTE ! Depends on the image, spaces may be inserted in between the images even if arranging the image with no space.

Arranging on “Job List”

NOTE !

- Arranging is not available with any job for which the number of copies has been set to two or more.
- Jobs with a status other than “Ready”, “Printed”, “Cancel”, and “Error” cannot be arranged.

1 Select two or more jobs on Job List.

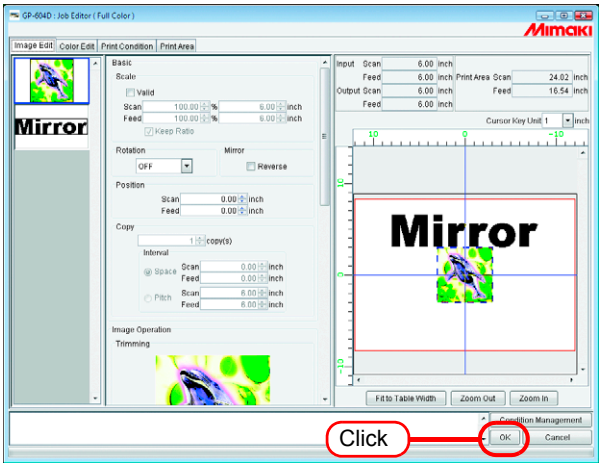


- You can select two or more jobs by clicking each of them while pressing the Ctrl key.
- By clicking jobs while pressing the Shift key, you can select all the jobs ranging from the job which you click first to the job you click second.

2 Open “Job Editor”.

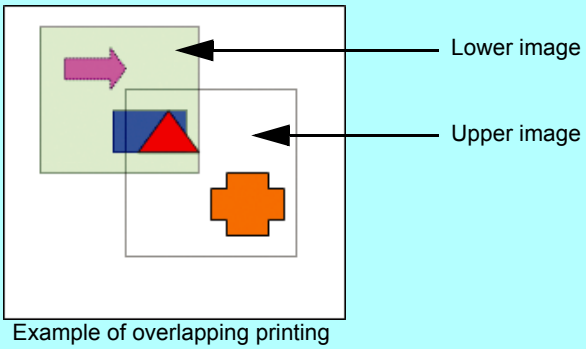
As for the opening method of “Job Editor”, refer to Reference Guide, Common features for every printer (☞ P.74) .

Perform job editing, and click OK .



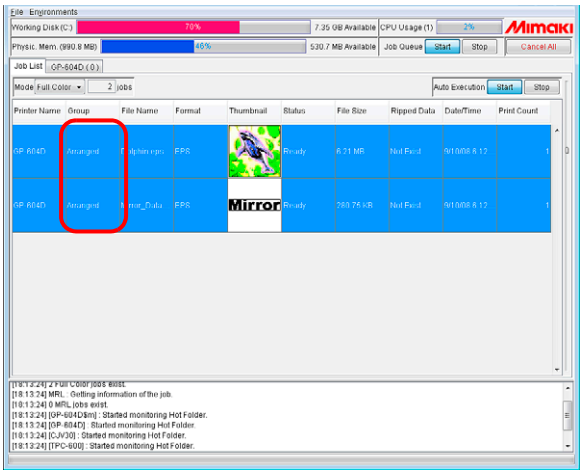
NOTE !

- When images overlap, they are printed superimposed, with the image displayed at the top of the thumbnail list first.
- The overlapping parts of the images are printed with priority given to the valid pixels of the topmost image.



Example of overlapping printing

3 “Arranged” will be displayed to the “Group” on the Job List.



When you open one of arranged jobs in “Job Editor”, all the jobs in the same group is displayed in “Job Editor”.

Add a Job to Group during Editing

A job is able to add to a Group during editing by “Job Editor”.

Add a job in Job List to “Job Editor”.

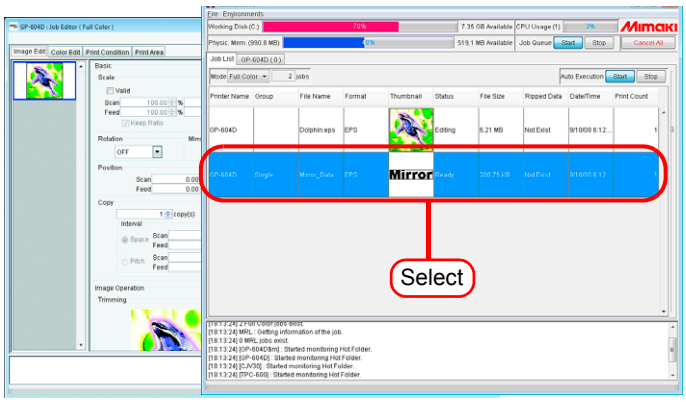
NOTE !

- If the job to be added is of “Composite”, the addition of the job cannot be made.
- Addition of a job is not allowed if the number of copies of the job being currently edited has been set to two or more.
- Jobs with a status other than “Ready”, “Printed”, “Cancel”, and “Error” cannot be added.

1 With “Job Editor” opened, select and double-click a job on Job List to be added.

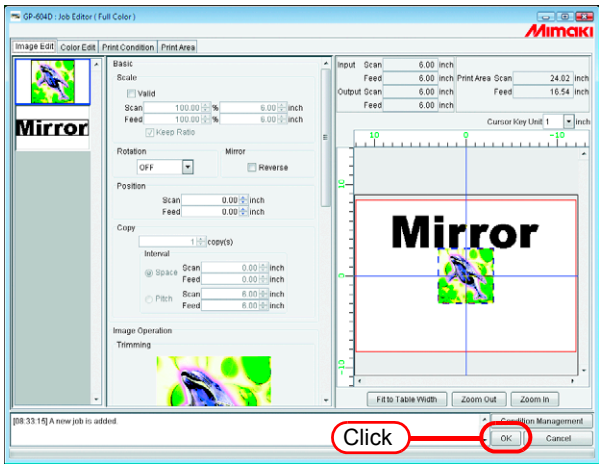
A job is able to add by any of the following methods:

- Click the right button, and select “Edit”.
- Press the E key while pressing the Ctrl key.

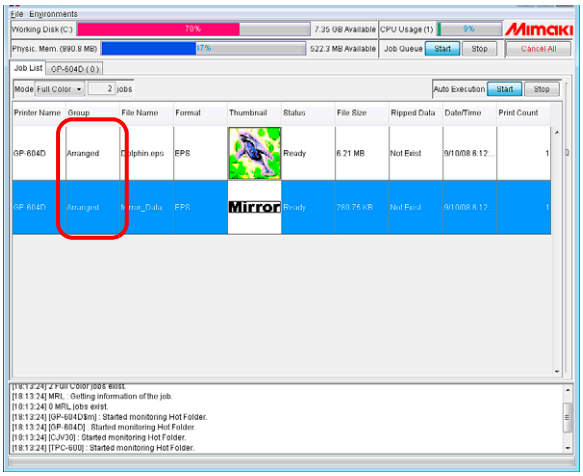


2 The job is added to “Job Editor”.

Perform job editing, and click OK .



3 “Arranged” will be displayed to the “Group” on the Job List.



When you open one of grouped jobs in “Job Editor”, all the jobs in the same group are displayed in “Job Editor”.

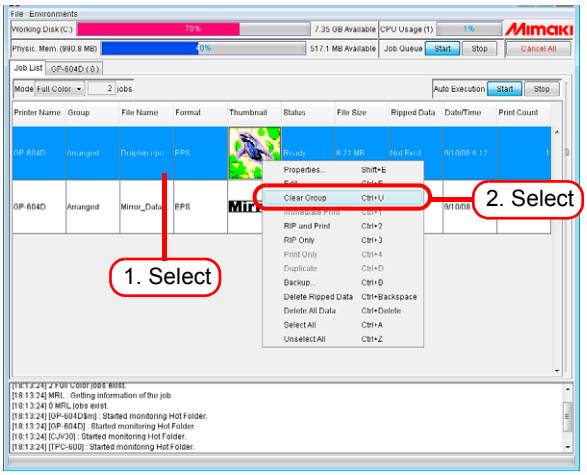
Clear Group

Arranged jobs are able to be removed from the group.

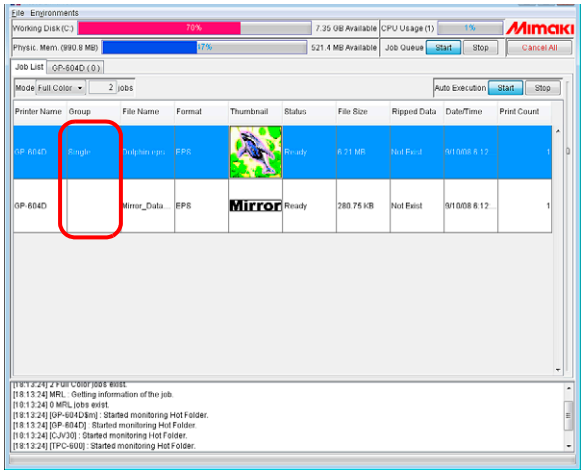
> **NOTE !** Arranged cannot be canceled for jobs with a status other than “Ready”, “Printed”, “Cancel”, and “Error”.

1 Select one of arranged jobs.

Right click it and select “Clear Group”.
Or hold down the Ctrl key and press the U key.



2 “Arranged” to the “Group” on the Job List will be cleared.

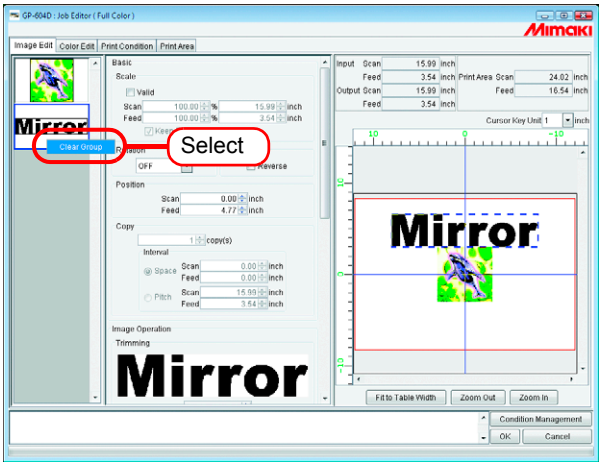


Removing a job from the arranged jobs group being edited

When editing arranged jobs, you can remove a job from the group at the “Job Editor”.

Right click on the thumbnail of a job to remove from the group to display a pop-up menu.

Select “Clear Group” in the pop-up menu.



Functions specific to “Arranged” (Layout - Arrangement)

Arranging images.

Arranging the Images (when there are multiple images)

NOTE !

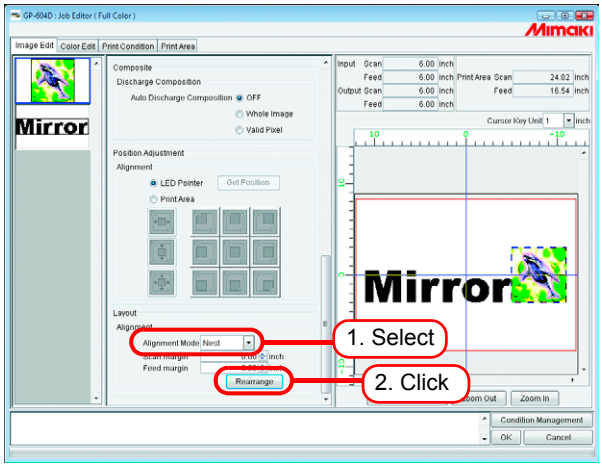
- Setting alignment and margins can be made as with the “Job Editor”.
- When “Job Editor” is opened, the previous settings are applied.
- The order in which thumbnail images are arranged can be set.(☞P.11)

Arrange in the scan direction (Nest)

Select “Nest”.

Enter the amount of margin for scan direction and feed direction, if necessary.
In the example, the scan direction margin is set to 1 inch.

Click Rearrange.



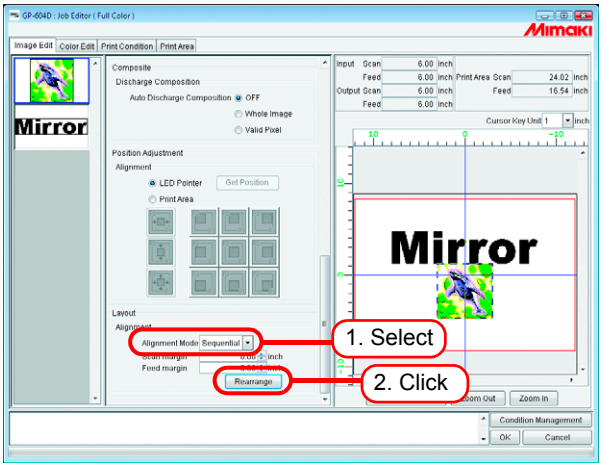
Arrange in the feed direction (Sequential)

Select “Sequential”.

Enter the amount of margins for feed direction, if necessary.

In the example, the feed direction margin is set to 3 inch.

Click Rearrange .



Arrange the Image (when there is one image)

Clicking Rearrange positions the image at the origin, irrespective of the arrangement method.

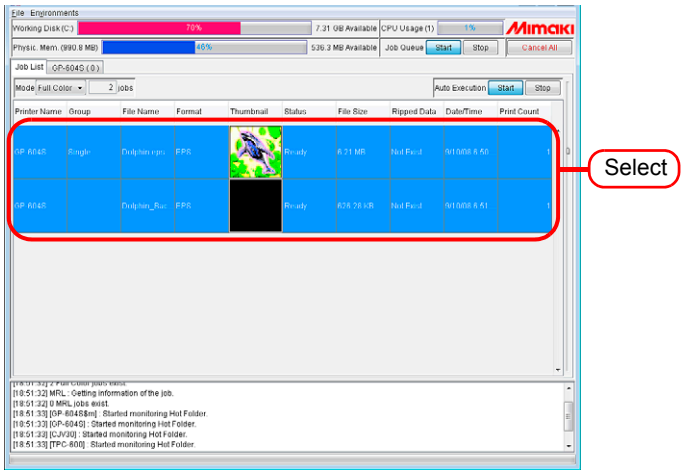
When “Copy” is set, Jobs cannot be rearranged.

How to designate “Composite” (GP-604S only)

NOTE !

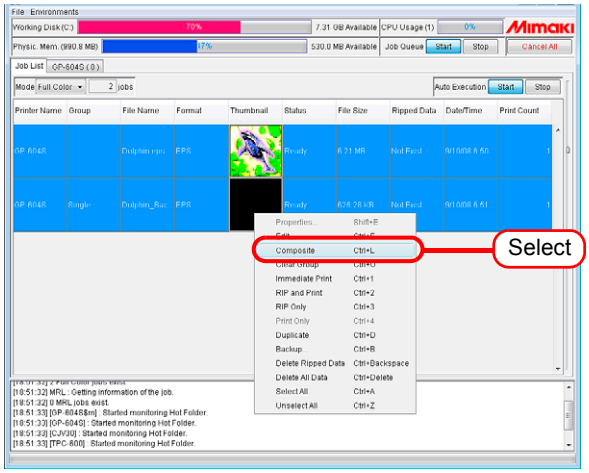
- Composite is not available with any job for which the number of copies has been set to two or more.
- Jobs with a status other than “Ready”, “Printed”, “Cancel”, and “Error” cannot be composited.

1 Select two or more jobs on Job List.

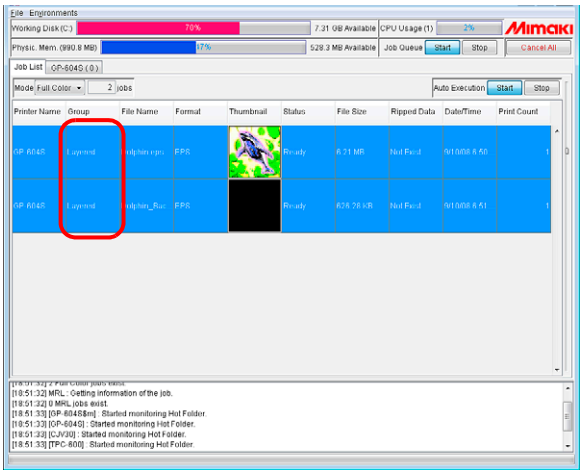


2 Right click it and select “Composite”.

Or hold down the Ctrl key and press the L key.



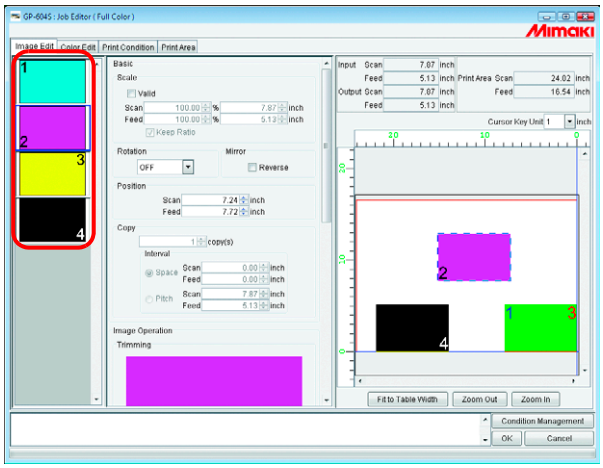
3 On the “Group” column of the selected job, “Layered” will be indicated.



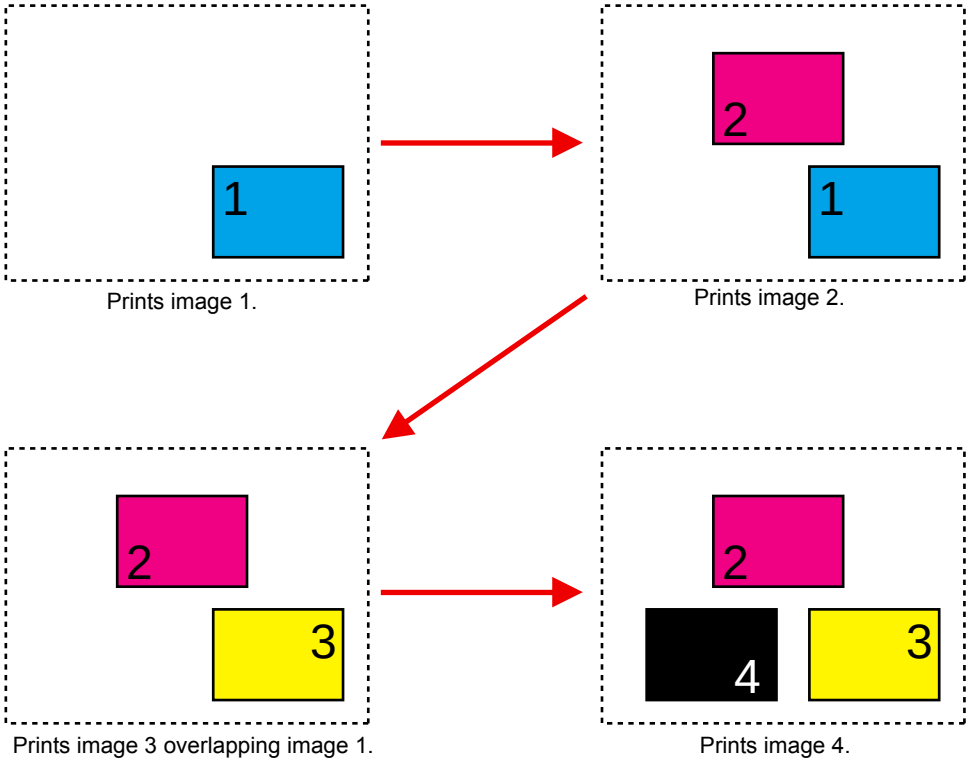
Setting the printing order of the multiple jobs made “Composite” (GP-604S only)

The Layered jobs are printed in the order of thumbnail list beginning at the top.

To change the order of the printing, select the thumbnail of the job you want to change the order, and then drag and drop.



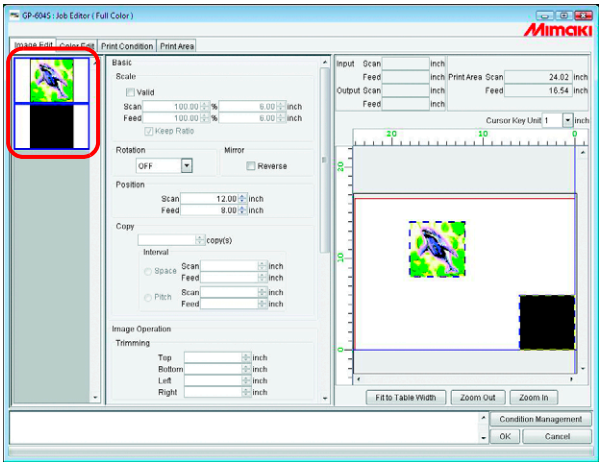
If the setting is made on the “Job Editor” as shown above, the printing is performed in the following order. (After each “Prints image X” completed, the head and the media are returned once to the plotter origin.)



Functions specific to Composite (GP-604S only)

Overlapping the images (Alignment)

1 Select the jobs you want to overlap from the thumbnail list, or on the layout preview.



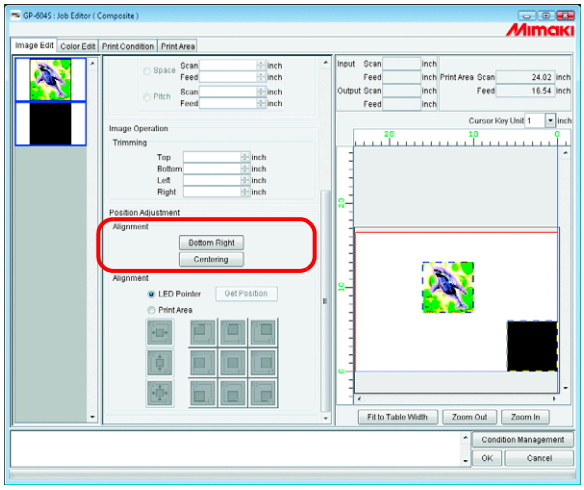
2 Click Bottom Right or Centering on “Alignment” of “Position Adjustment” to conform the positioning of multiple jobs.

Bottom Right

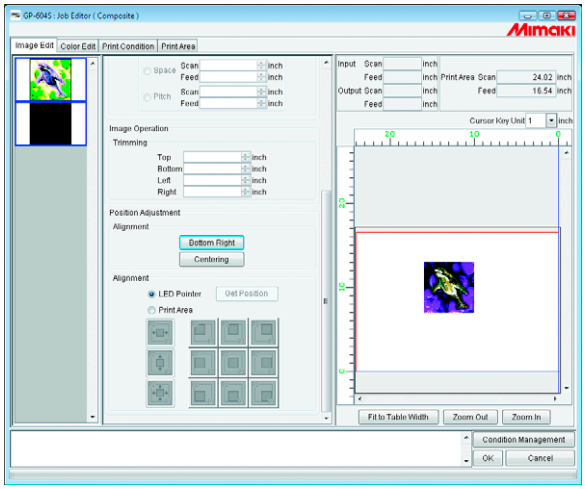
To the bottom right of the first selected image, the bottom right of the other image is aligned and moved.

Centering

To the center of the first selected image, the center of the other image is aligned and moved.



Execute Centering .



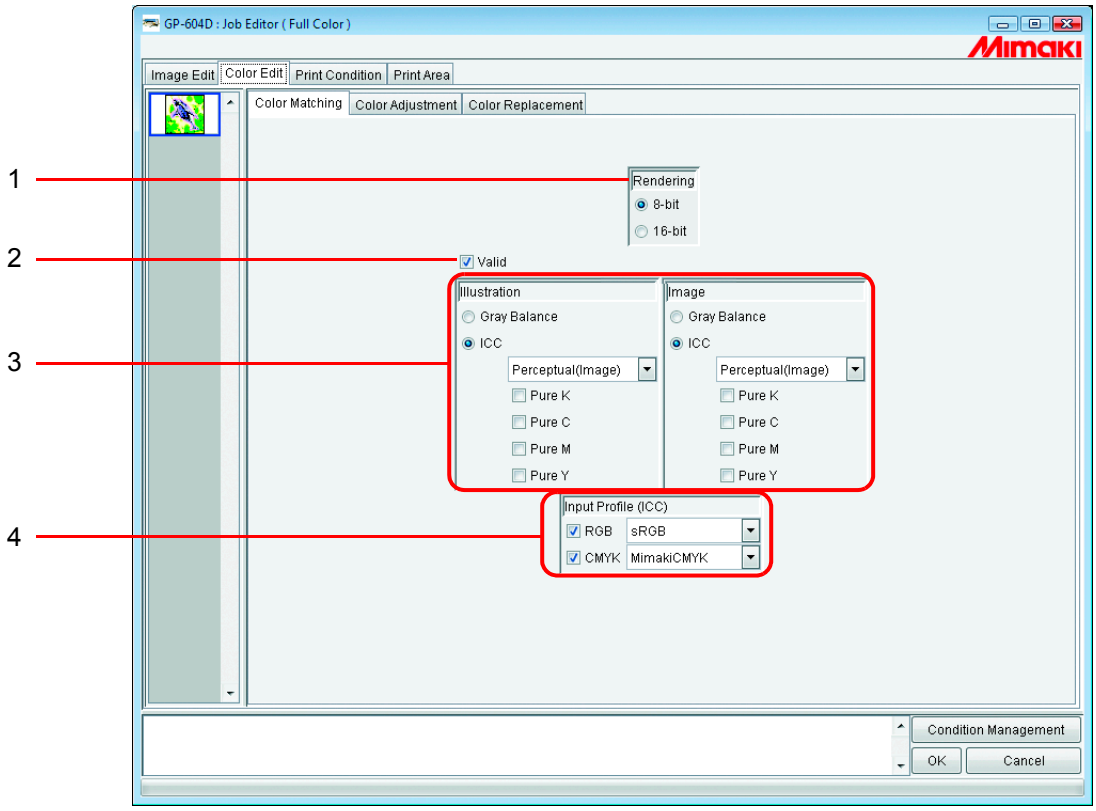
Color Edit

Make setting for Color matching, etc. by “Color Edit” in the “Job Editor” window.
Select a job to be subjected to Color Edit from the list of thumbnails at left.

NOTE!

- **About dialog screen**
  Although the screens for GP-604D are used in this manual, the screens for the models other than GP-604D may be used in this chapter. Read the printer model name as GP-604D.
- Perform color editing for a single job at a time. When you are editing two or more jobs, select a job to be subjected to “Color Edit” from the thumbnail list and perform setting.
- When “Discharge” device profile is selected in ink set, Jobs cannot be performed Color Edit settings.

Setting Color Matching



1. Rendering

If a version 3.0 device profile is selected in the Print Conditions window, the Rendering screen is displayed.

8 bit Applies the same print quality as before.

16 bit Prints with smoother gradation.

If a version 2.0 device profile is selected, the Rendering screen is not displayed.

8-bit print mode applies as before.

2. Valid

Makes the Color matching function active.

Performs printing according to the conditions you have set on the “Color Matching” menu.

3. Illustration/Image

Set Color matching for each of the illustration part and image part in one file separately.

Gray balance: Available with CMYK data.
The colors designated by data are mixed in such a way that no other color is mixed.
Gray balance is inferior to ICM in the accuracy of color matching.
If a Version 3.0 device profile generated by converting a Version 2.0 device profile is selected on the [Print Condition] screen, you cannot select gray balance.

ICM: Color matching is processed with ICC Profile.
Usually, select this option.

- Perceptual: Suitable to print images (photos). Color matching is performed so that the brightness of the whole image will be highly near to that of the input image.
- Colorimetric: Suitable to illustrations. Color matching is performed so that printing will be achieved in as deep color as possible.
- Relative: Color matching is performed so that the print colors relative to white will approximate to those of the input image. When the color of the media is different from the white that works as a reference for the colors of the input image, the print colors vary with the media.
  For example, if yellowish media is used for printing, the whole print is slightly yellowish compared with the input image.
- Absolute: Color matching is performed so that the print colors will approximate to those of the input image without being affected by the media color. When the color of the media is different from the white of the input image, an effort is made so that the color of the media will be near to the white of the input image. Therefore, there may be a case where ink is ejected even without any image to be printed.

Pure K, Pure C, Pure M, Pure Y: For data prepared in primary colors, that is, cyan, magenta, yellow, and/or black, printing is carried out without color matching, thus preventing any other ink from being mixed.

4. Input Profile (ICM)

Select an Input Profile for RGB data and CMYK data individually.
The profile is Gray balance mode when the check box is unchecked.

NOTE ! In case the input image has the specific profile such as scanner, specify the profile as the input profile to improve the color repeatability.
The profile is needed to be registered on the Profile Manager.

Editing Color Adjustment

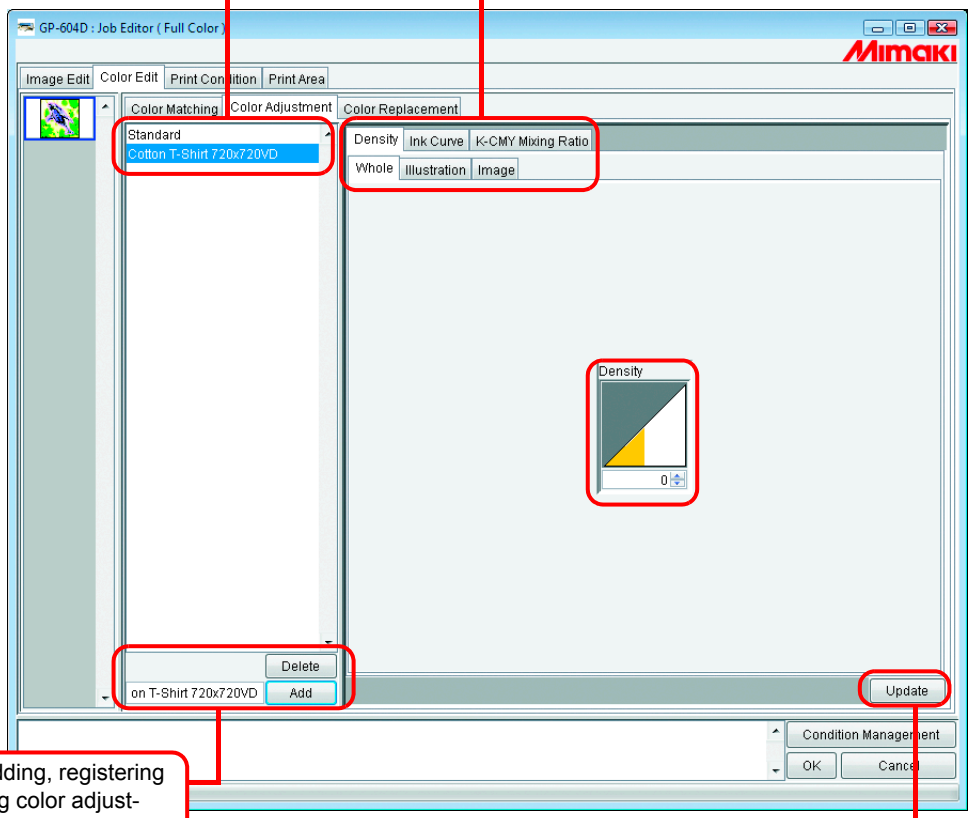
> **NOTE !** If “Discharge” device profile is selected in ink set, Color Edit setting is not displayed.

Adjust the color of an image. Register a color adjustment set.

Register color adjustment set for each Device Profile in “Color Adjustment” page.

List of file names of color adjustments. When you select “Standard”, editing of color adjustment is not allowed. When you perform Color Edit, prepare a color adjustment set newly. (P.55)

Click the tab for the adjustment to be made.
Density (P.57)
Ink curve (P.59)
K-CMY Mixing Ratio (P.67)



Used for adding, registering and deleting color adjustment set names for settings. (P.55)

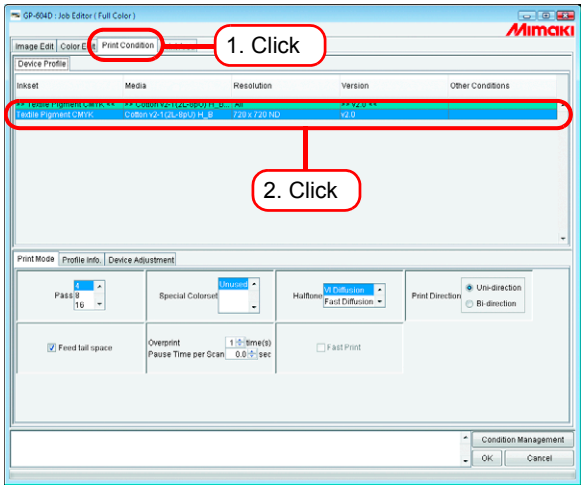
Applies the selected color adjustment set to the settings.

Preparing a Color Adjustment Set

Make a Color Adjustment Set for each Device Profile.

1 Click [Print Condition] page.
Click the Device Profile for which you would like to prepare a color adjustment set.

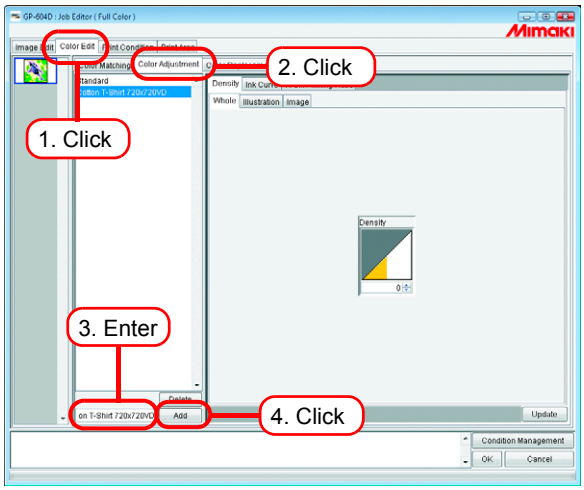
NOTE ! Make color adjustment set for each Device Profile.
To Print by Using Color Adjustment Set, select the Device Profile that specified with the Color Adjustment Set is Prepared.



2 Click [Color Edit] page.
Click [Color Adjustment] page.
Enter the Color Adjustment Set name.

NOTE ! The following characters cannot be entered.
\ / : * ? " < > |

Click Add .
When there is already the same name, a confirmation message for overwrite is displayed.



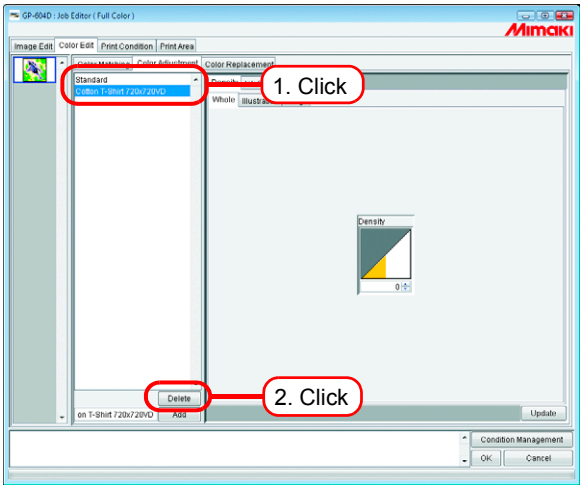
- When making new Color Adjustment Set, select “Standard” before click Add.
- When registering anew by editing registered color adjustment set, select and rename them to click Add.

Deletes Color Adjustment Sets

Click a Color Adjustment Set to set.

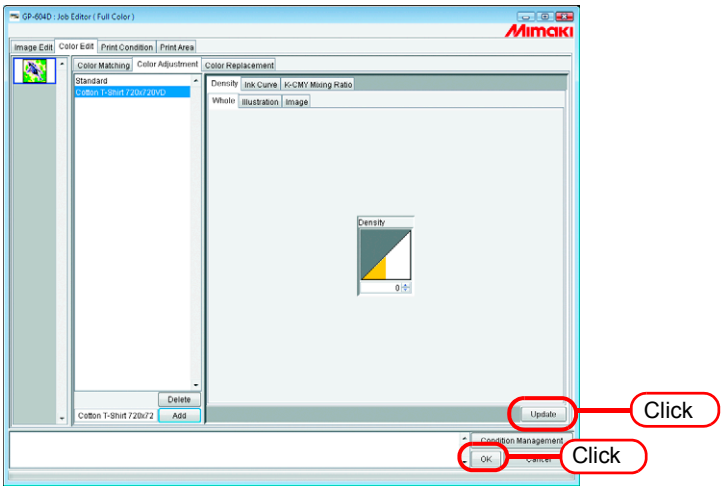
Click Delete to delete the selected color adjustment set.

NOTE ! The “Standard” set can not delete.



Updating Color Adjustment Sets

To update the color adjustment information, click Update or OK, and exit the “Job Editor”.

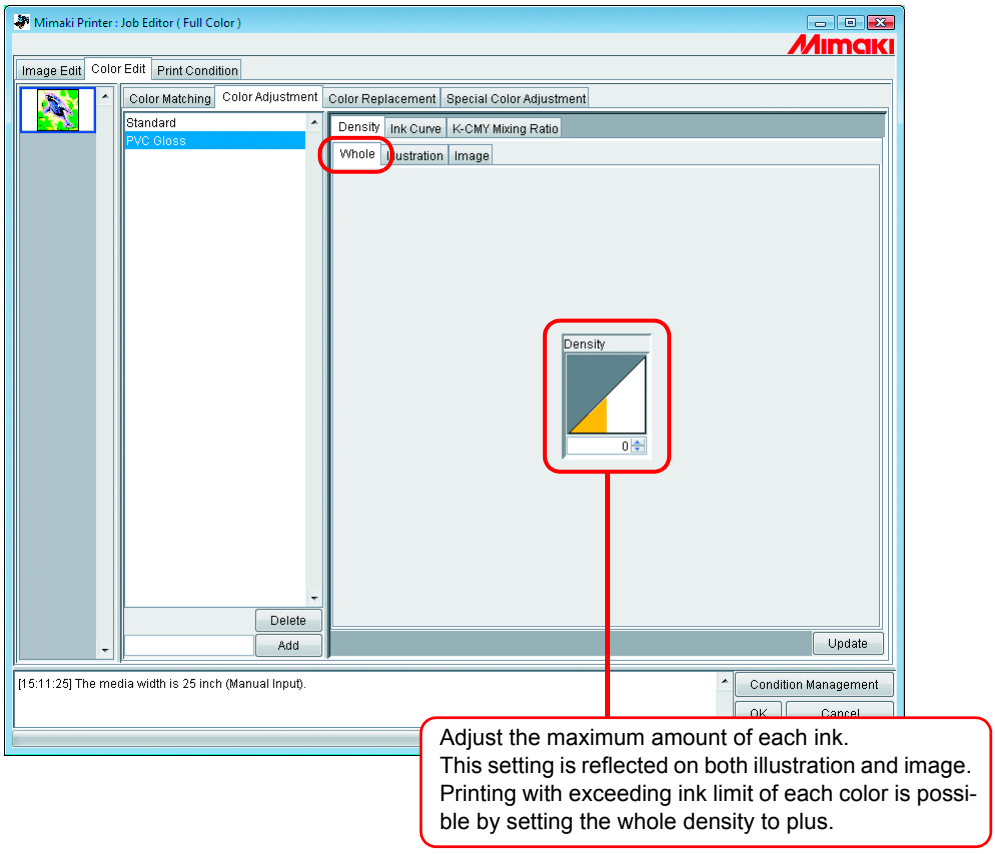


Adjusting Ink Density

Adjusting All Ink Densities

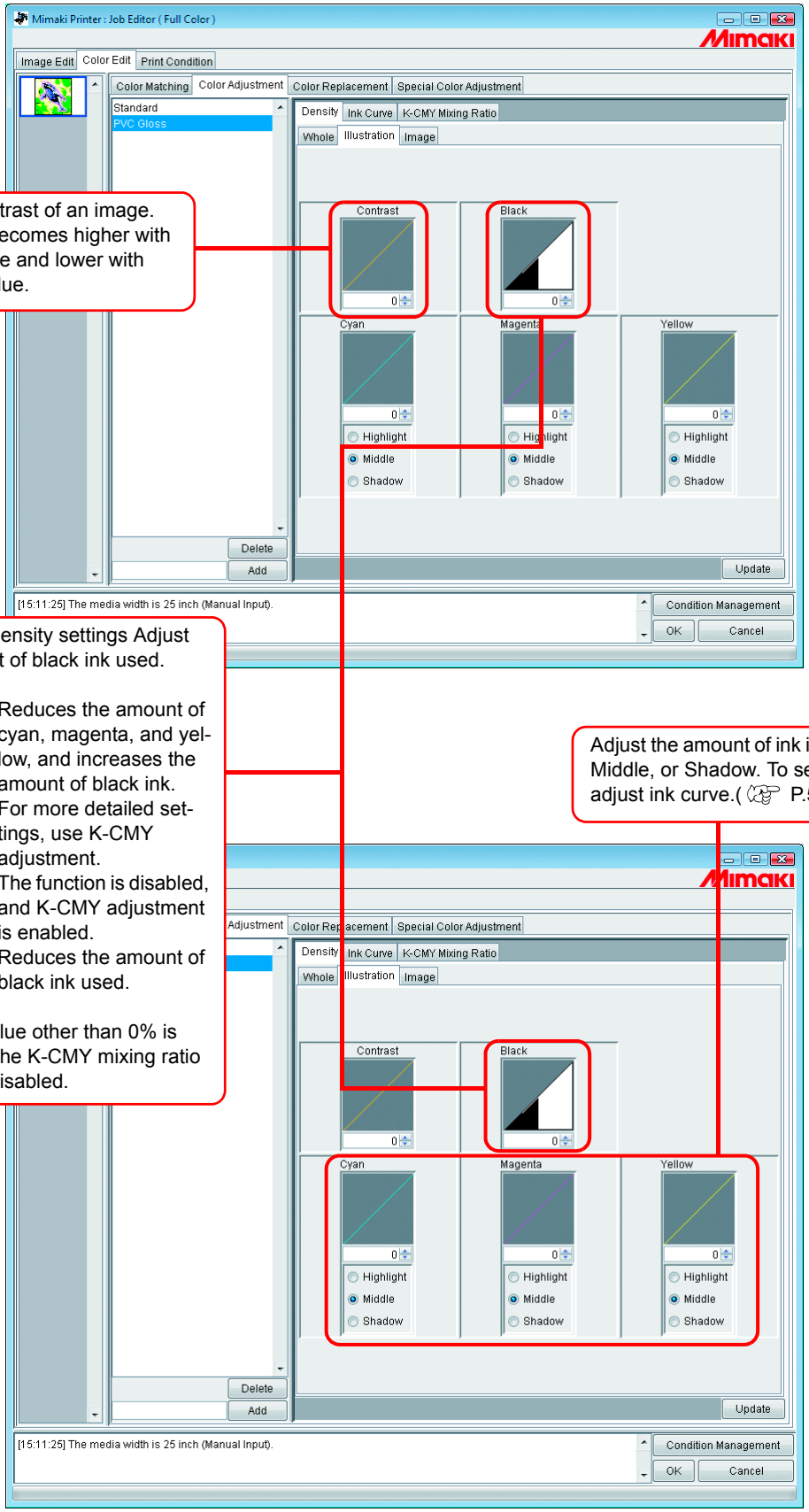
Adjust the maximum amount of each ink.

When click , the value changes every five. Also enter any value in a box.
The value can be set in a range from minus 50 percent to 50 percent.



Adjusting the Ink Densities for Illustration Part and Image Part

Adjust the ink amount for each of the illustration part and image part in one file.



Adjust contrast of an image. Contrast becomes higher with larger value and lower with smaller value.

Black ink density settings Adjust the amount of black ink used.

1 to +50	Reduces the amount of cyan, magenta, and yellow, and increases the amount of black ink. For more detailed settings, use K-CMY adjustment.
0	The function is disabled, and K-CMY adjustment is enabled.
-50 to -1	Reduces the amount of black ink used.

When a value other than 0% is specified, the K-CMY mixing ratio setting is disabled.

Adjust the amount of ink in Highlight, Middle, or Shadow. To set in detail, adjust ink curve.(P.59)

To Adjust Color in Detail (Ink Curve)

If output is not obtained in your desired colors even by changing ink densities, adjust the ink curve of each kind of ink.

The method of adjusting ink curves differs according to the version of the device profile.

Version 1.0 and 2.0 device profiles

Ink Limit : Adjust ink density to all the colors.

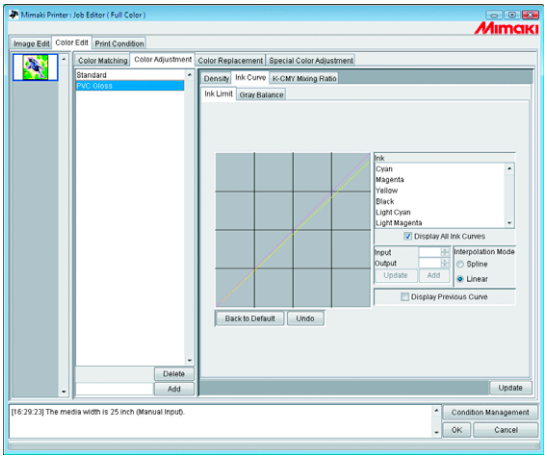
Gray Balance : Adjust ink density using only four colors of Black, Cyan, Magenta, and Yellow. Gray Balance is only available in Version 2.0.

NOTE !

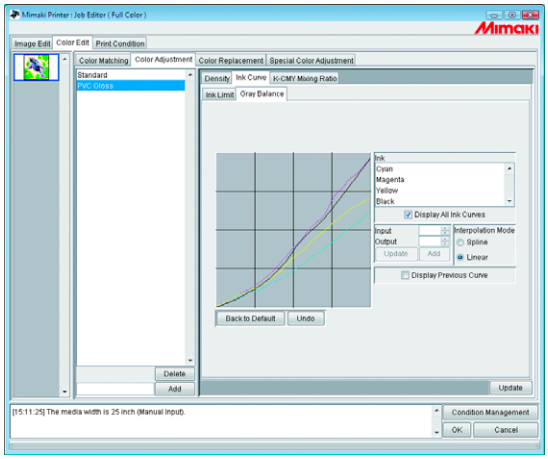
"Gray balance" is valid only when you have selected gray balance on the "Color matching" menu (☞ P.52).

The setting of Ink curve is reflected over the whole area without distinction between the image part and illustration part.

"Ink Limit" Curve



"Gray Balance" Curve



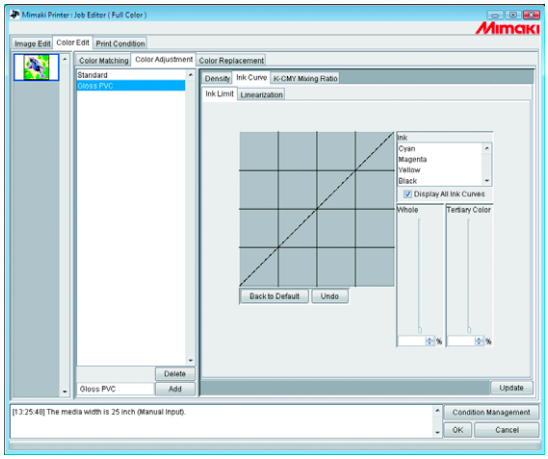
Refer to "Adjusting Ink Curves" (☞ P.61) for how to adjust ink curves.

Version 3.0 device profile

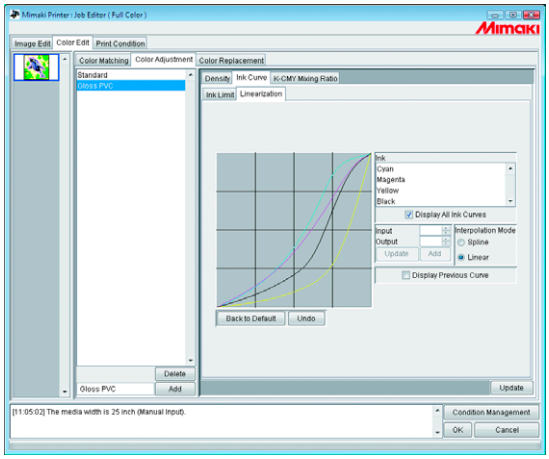
Ink limit: Sets the maximum density of the ink.

Linearization: Adjusts the density of ink in all areas.

“Ink Limit” Curve



“Linearization” Curve



Adjust the “Ink Limit” curve using the slider.

“Whole” adjusts the density for all ink colors.

“Tertiary Color” adjusts the density of each ink color when 3 or more colors are mixed.

The density of “Whole” is the upper limit value for Tertiary Color.

When the upper limit value for Ink Limit of “Whole” is changed, the upper limit value for Ink Limit of “Tertiary Color” also changes.

Refer to “Adjusting Ink Curves” (☞P.61) for how to adjust linearization curve.

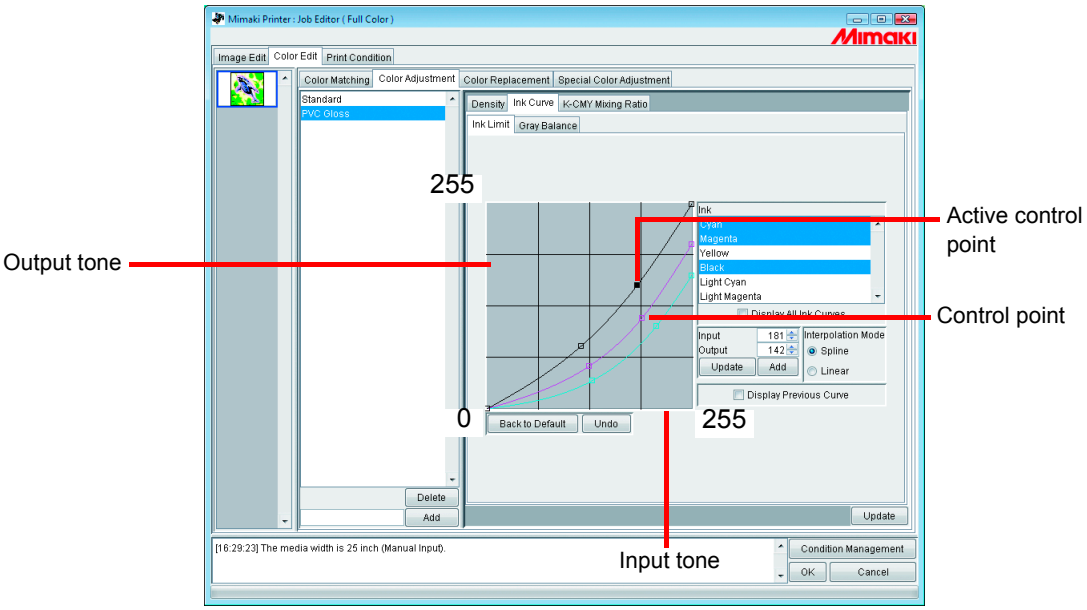
Adjusting Ink Curves

Display the ink curve of ink selected from the “Ink” list.

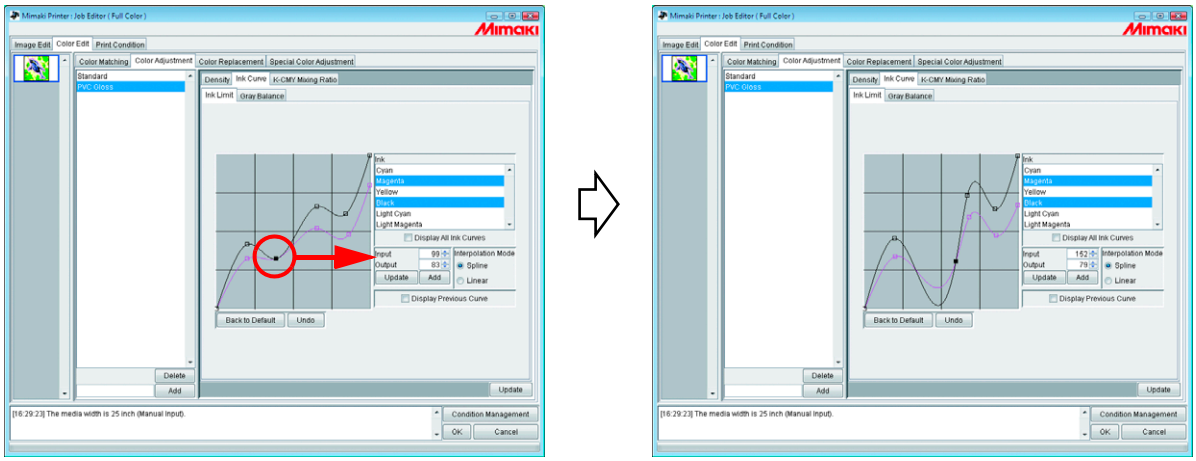
The horizontal-axis indicates the ink density before adjustment (input tone) and the vertical-axis indicates the ink density after adjustment (output tone). Both axes indicate in a range from 0 to 255.

The output tone is set to 0 if below 0 and to 255 if over 255.

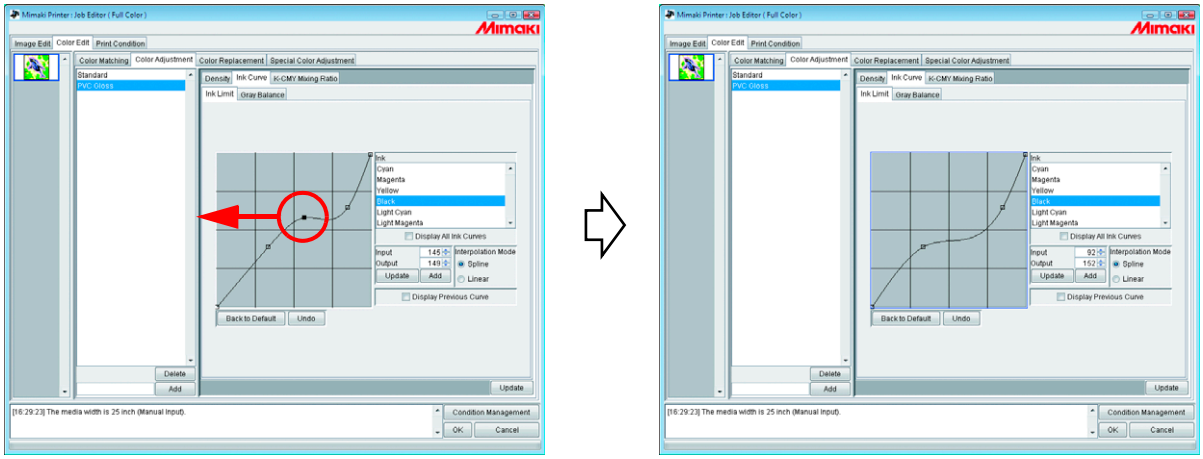
Click an adjusting point to make a control point. Up to 30 points can be added. A selected control point changes from a white rectangle into an ink color one.

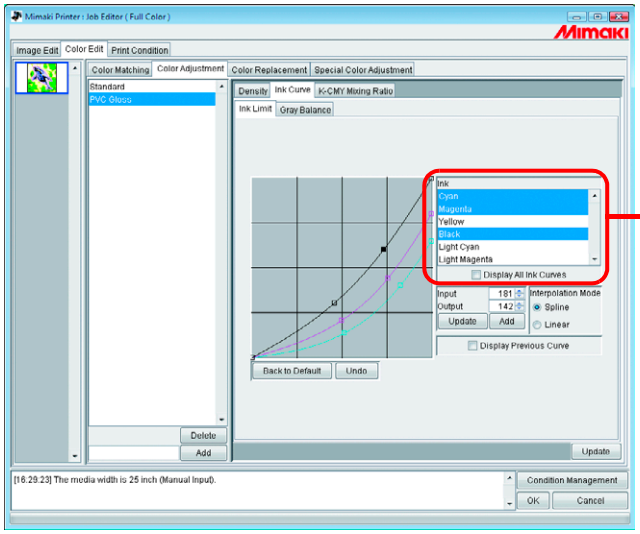


When changing several ink curves at a time, drag a point where the ink curves of several colors are intersecting or adjoining each other. Or push Arrow key to move that control point.



To delete a control point, drag the point to outside the adjacent one. Or push [Delete] key or [Back Space] key.

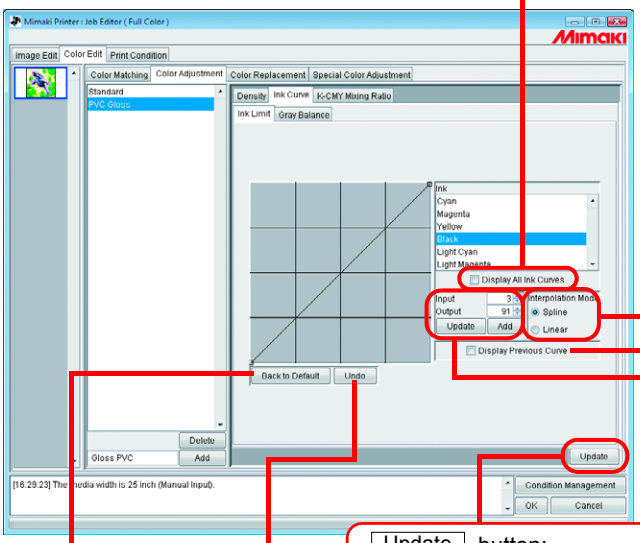




Select ink list:
Display the inks selected from the ink set in the “Print Condition” window.
To select more than one ink, click ink names while pressing the [Ctrl] key.
To deselect, click the ink name again.

Display All Ink Curves:
Display all ink curves.
When unchecked, only the ink curve selected from the “Ink” list is displayed.

Interpolation Method:
Select Spline or Linear.
When click an ink name on the “Ink” list, display the current Interpolation Mode.
When select several inks and their Interpolation Mode are different, display the Interpolation Mode of the first ink on the ink list that has been selected.



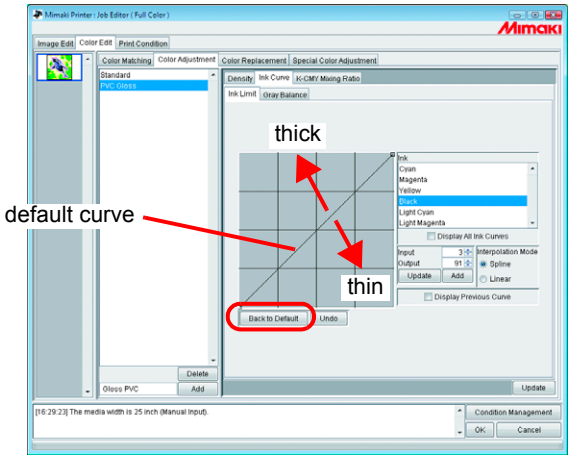
Display Previous Curve:
Display the previous ink curve with a broken line.
If Update is clicked, the previous ink curve is disappear.

Enter the value of input tone and output tone to adjust control point. When add the control point, enter the value, and click Add .
When altering the control point position, first select the control point, and then input the value. For update the control point position, click Update after inputting the value.
Note that the changed control point can not be set across the adjacent one.

Update button:
Register the updated ink curve.

Undo button:
Restore the ink curve selected before Update button executed.

Back to Default button:
Read in default ink limit value of the ink selected on “Ink” list.
When setting a smaller value than the limit, the color becomes thin and a larger value, the ink becomes thick therefore hard to dry.



Set an Ink Curve by Keyboard

Adjustment of an ink curve is available either by keyboards or mouse.

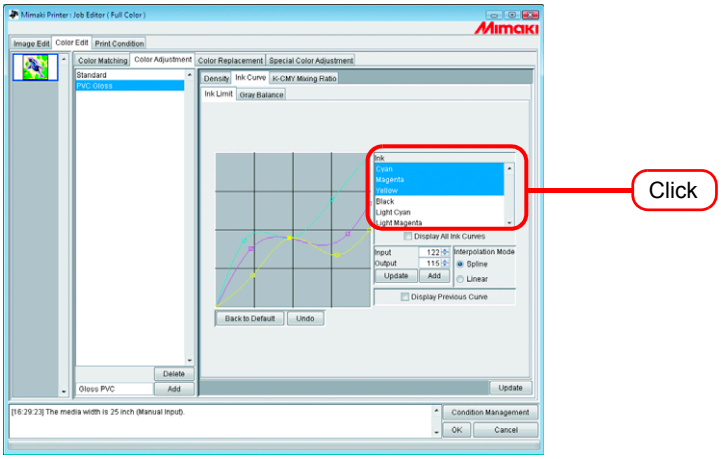
Use the following keys.

- Z key: Select control points to the left way.
- X key: Select control points to the right way.
- Delete key / Back Space key: Delete control points.
- ←, →, ↑, ↓ Key: Move control points in the direction of Arrow key.

When adjust control points where several ink curves are intersecting or adjoining at a time, adjusting by keyboard is more convenient.

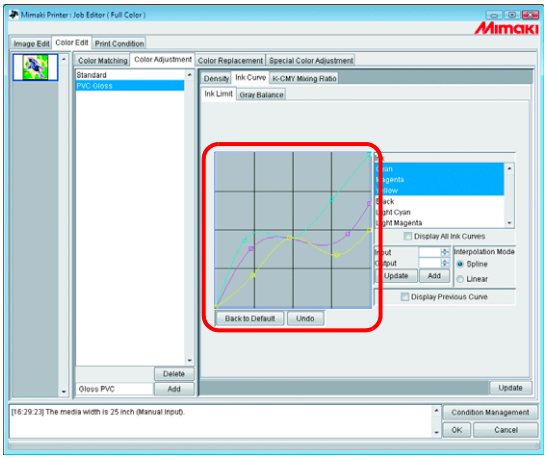
In this section, explains how to adjust several ink curves.

1 Select the adjustment ink On “Ink” list.



2 Click the ink curve area with the mouse.

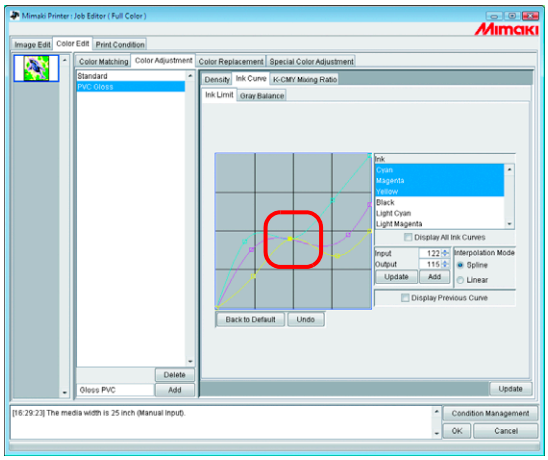
The ink curve area being surrounded by blue frame, the ink curve area is selected.



3 Select control points by [Z] or [X] key.

NOTE ! When the control points can not be selected even by pushing keys, check the following.

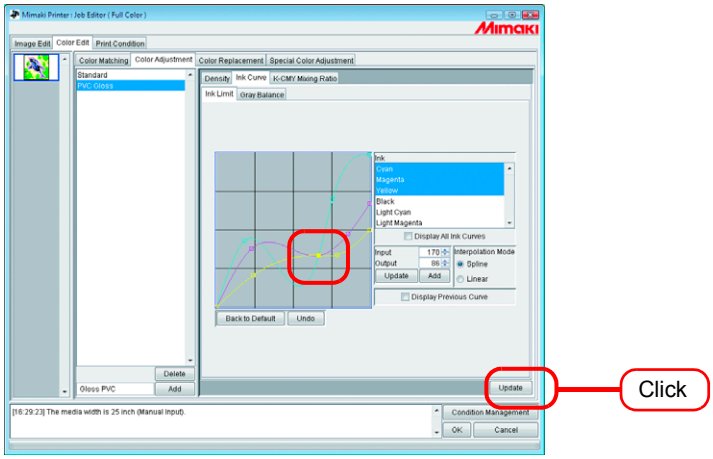
- Is the ink curve area selected?



4 Adjust a control point by Arrow key.

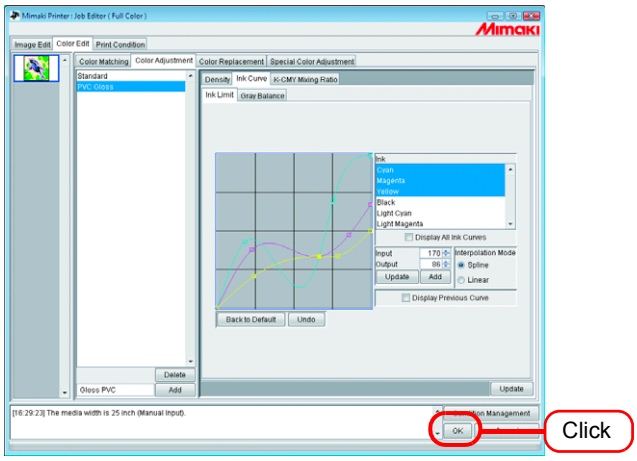
Click [Update].

Update the ink curve.



5 Click OK .

The color adjustment set is updated, and the “Job Editor” is closed.



K-CMY Mixing Ratio

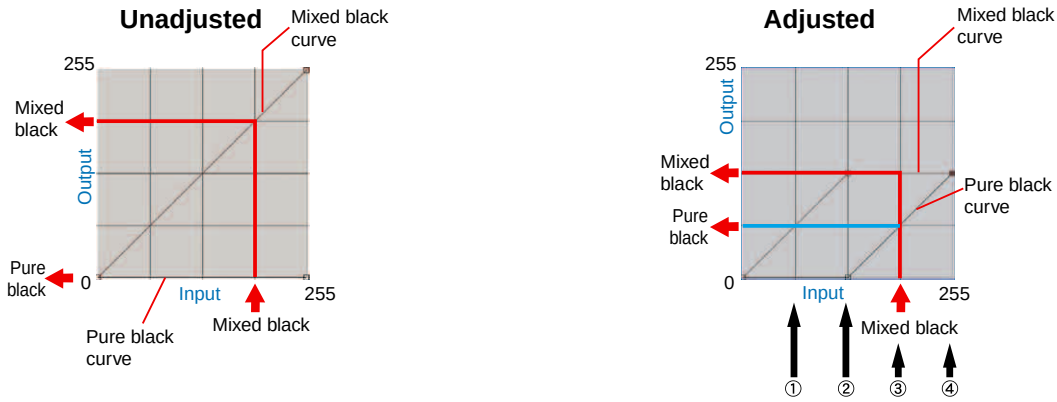
Replaces parts expressed as black with cyan, magenta, and yellow (mixed black) with single color black.

Adjustment is possible for each illustration and image.

It is effective in the following cases.

1) For reducing the ink density in RGB images

2) For printing RGB images with sharp black



The adjustment method is the same as for ink curve.

Example:

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.

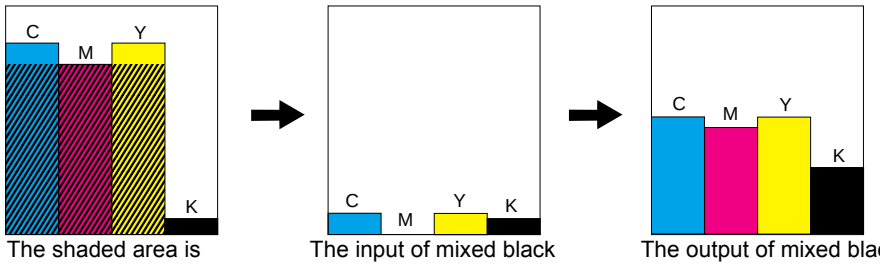
Calculation of (3)

C 200 - 192 + 128 = 136

M 192 - 192 + 128 = 128

Y 200 - 192 + 128 = 136

K 5 + 64 = 69



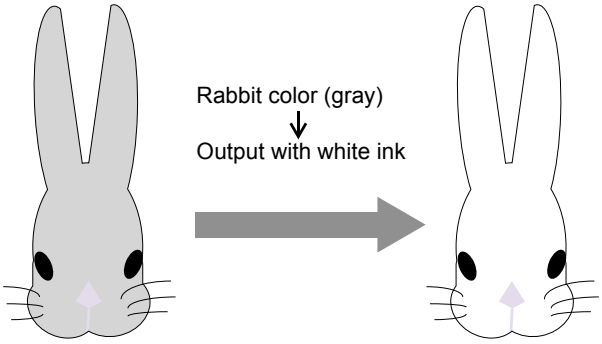
The shaded area is mixed black of CMY.

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.

Color Replacement

This section explains the function (Color Replacement) for setting the ink color and ink density used for a specific color in the original image.



NOTE!

About dialog screen

Although the screens for GP-604D are used in this manual, the screens for the models other than GP-604D may be used in this chapter. Read the printer model name as GP-604D.

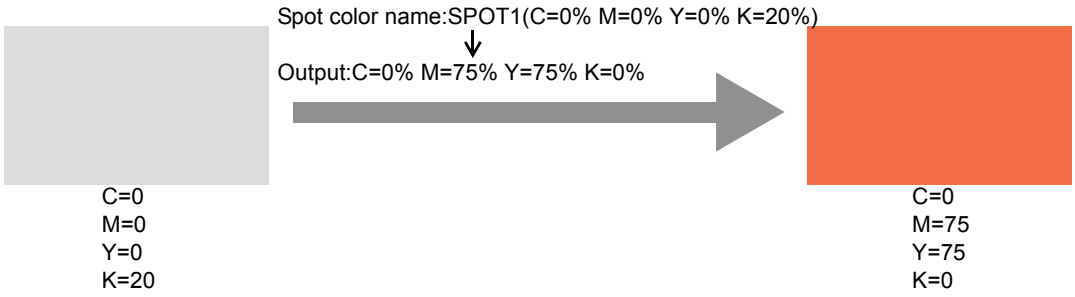
Color Replacement method

There are four methods for Color Replacement.

Color Replacement of spot color names

In Adobe Illustrator and the like, special colors called “spot color” or “special colors” can be created.

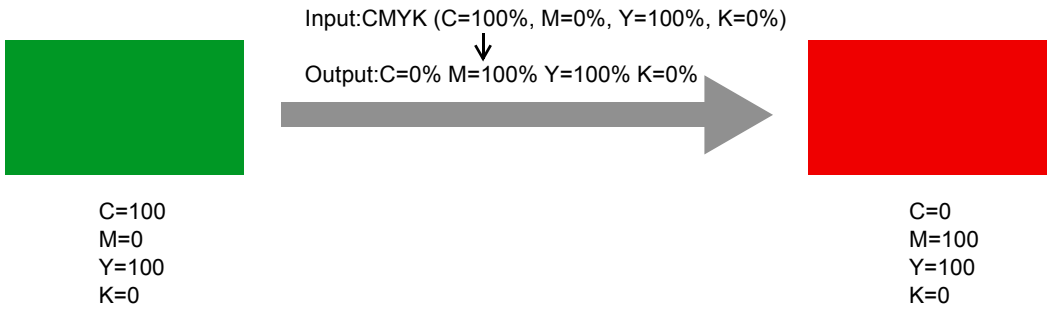
Spot colors must be named. In RasterLinkPro5 TA, an ink color and density is specified for these names.



Color Replacement of CMYK

It is possible to replace the CMYK colors of vector objects with other ink colors.

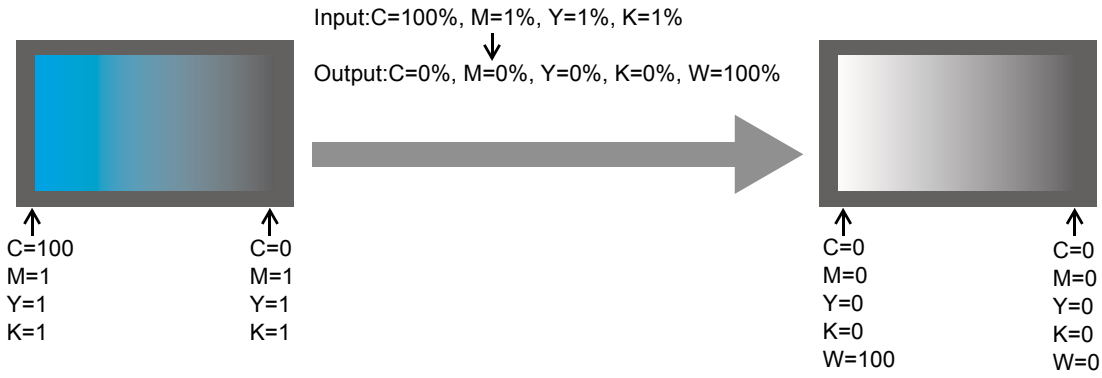
When the same color is being used for a different vector object in the image, that color will also be changed.



Color Replacement of gradations

Specify the ink color and density of gradations.

For example, replace color from a cyan gradation to a white gradation, with specified density.



Replace any one color of CMYK with multiple inks

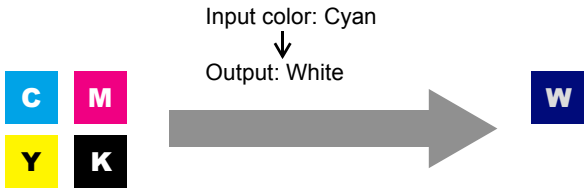
Print an image in CMYK color mode with specified inks for any one color of CMYK.

Multiple inks can be selected. However, light ink cannot be specified.

In this mode color replacement of Raster images is also possible.

This is used when printing the entire image with only specific inks.

For example, this is convenient when printing monotone images with white ink.



Special color is not generated by Auto Special Color Composition. Special colors that have undergone color replacement are printed with the specified density.

Method of creating Color Replacement images

Conditions for Images where Color Replacement is Possible

There are some conditions for images to replace the color.

Only CMYK color mode images are supported.

	Image format	Convertible part
Color Replacement of spot colors	EPS, PS, PDF	Vector objects only
Color Replacement of CMYK colors	EPS, PS, PDF	Vector objects only
Color Replacement of gradations	EPS, PS, PDF	Vector objects only
Replacement of one of CMYK color with multiple inks	EPS, PS, PDF, TIFF	Vector and Raster

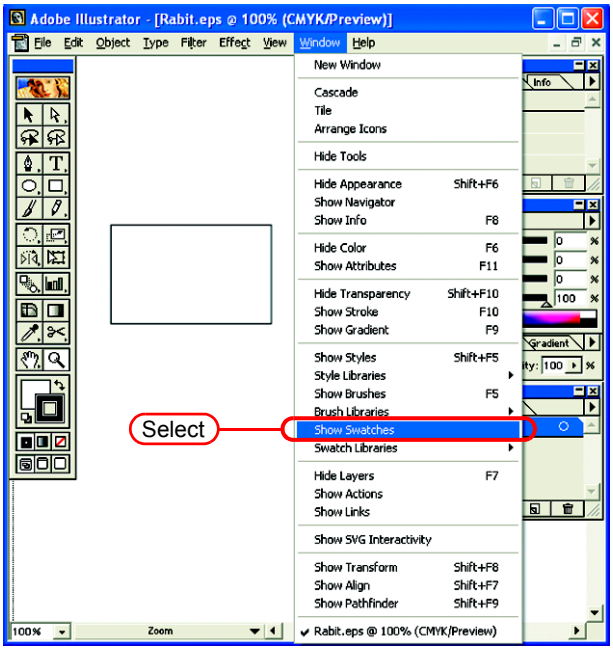
Creating spot colors

The following explains how to create and use spot colors in Adobe Illustrator 10.

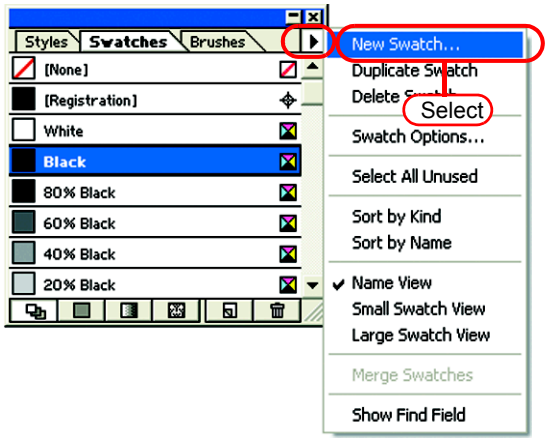
For details, refer to the Adobe Illustrator manual.

1 Open the image to edit in Adobe Illustrator.

If the swatches window is not open, select [Window] - [Show Swatches] to display the swatches window.

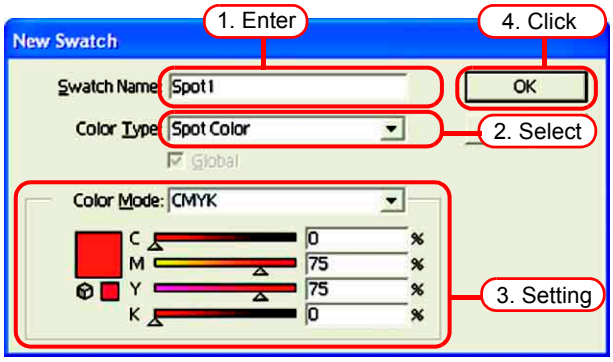


2 Click the ▶ and select “New Swatch” from the menu.
A new swatch window appears.



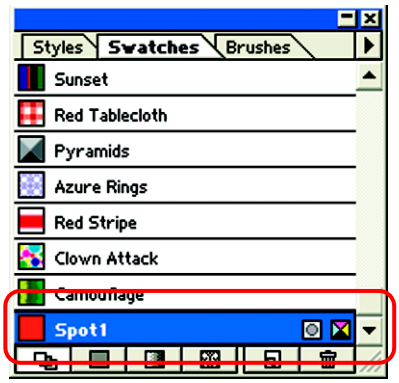
3 Enter a name in “Swatch Name”.
In “Color Type”, select “Spot Color”.
In Adobe Illustrator CS, select “Special”.

In “Color Mode”, select “CMYK” and specify the display color.
Click OK .

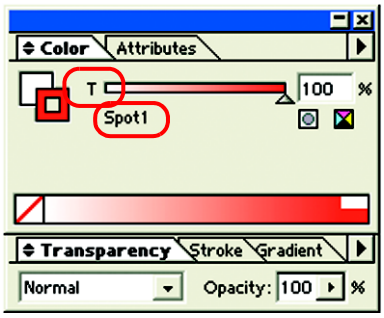


4 A new swatch is created.

To use it, select the created swatch in the Swatches window.



In the Color window, the swatch is displayed with [Swatch Name] and [T].

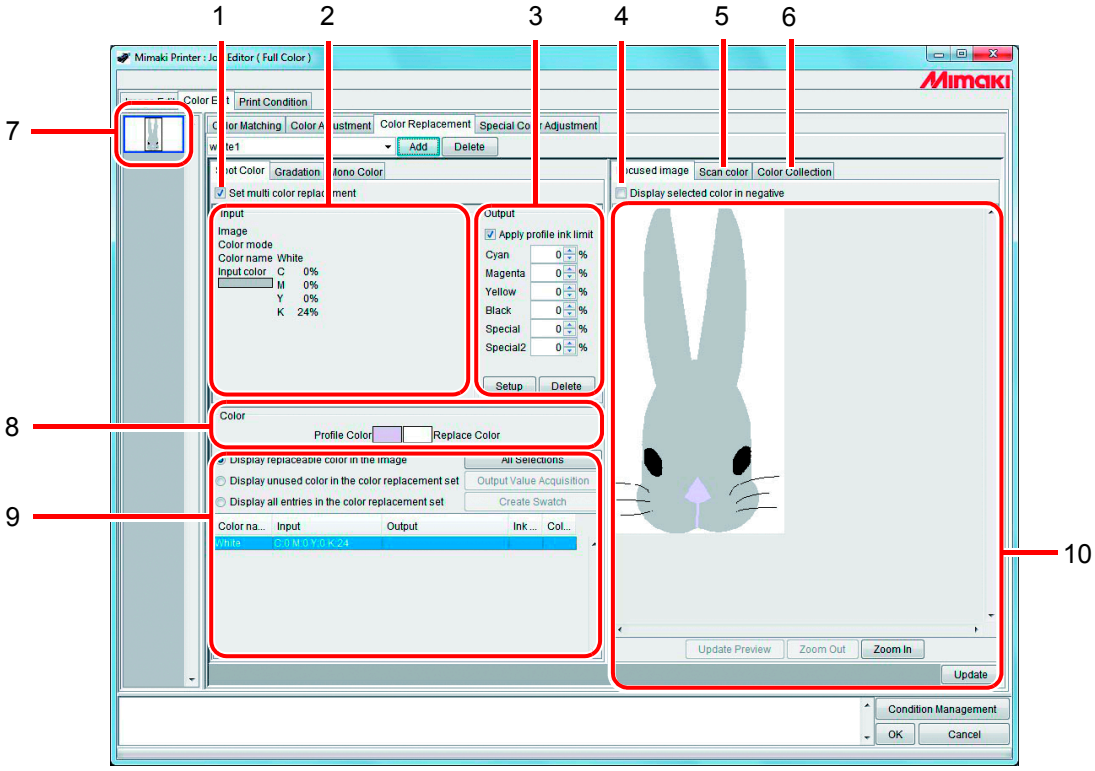


Color Replacement screen

There are three types of Color Replacement screen, “Spot Color”, “Gradation” and “Mono Color”.

Spot Color

Sets color replacement of spot colors and CMYK colors.



1. Set multi color replacement

Allows multi Color Replacement. It is possible to perform Color Replacement of spot colors and gradations.

2. Input information

When the cursor is placed on the preview screen, the color information at the cursor position appears.

Alternatively, the information selected from the Color Replacement information list is displayed.

3. Output information

Set the density after replacement for the colors currently shown in “Input” information.
In addition, when [Apply profile ink limit] is checked, print is performed by changing the setting value to the lower one automatically to reduce ink overflow at printing. When you uncheck the checkbox, print is performed as the specified component value, however, printing defect such as blur due to ink overflow tends to occur. Use the device with [Apply profile ink limit] checked as much as possible.

4. Display selected color in negative

When this is checked, colors that are currently editable appear flashing in the preview.

5. Scan color

Scan some of the colors of an original document such as a comprehensive layout, and bring the colors closer.

6. Color Collection

Color Collection shows DIC color information.

7. Thumbnail

Jobs for editing appear as thumbnail images. When editing multiple jobs at the same time, or multipage jobs, selecting an image in the thumbnail list displays it in the preview screen. The replacement information list also displays the information of the selected image.

8. Color

Color shows a profile color (before color replacement) displayed in the current input information and its replacement color (to be generated after color replacement.)

9. Replacement information list

Shows ink information for an input color before replacement and its output color after replacement. Use the set of radio buttons above the list to select information to be displayed.

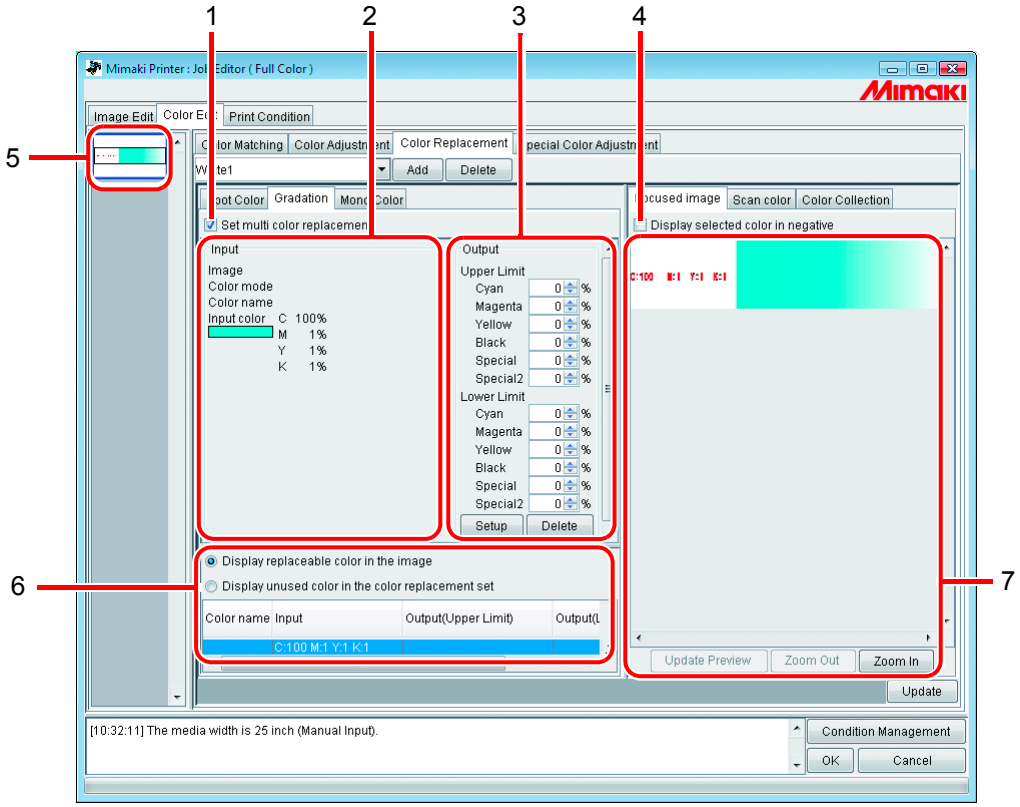
Obtains ink information after replacement (output) from the color collection.

10. Preview screen

Shows a preview of the image. When the cursor is rolled over the preview, the pixel information appears in “Input” information. Clicking the pixel allows the color of the pixel to be edited.

Gradation

Sets Color Replacement of the gradation.



1. Set multi color replacement

Allows multi Color Replacement. It is possible to perform Color Replacement of spot colors and gradations.

2. Input information

When the cursor is placed on the preview screen, the color information at the cursor position appears.

Alternatively, the information selected from the Color Replacement information list is displayed.

3. Output information

Set the density after replacement for the colors currently shown in “Input” information.

The darkest part and lightest part of a gradation respectively can be specified.

4. Display selected color in negative

When this is checked, the areas where the densities of the colors that are currently editable are maximum appear flashing in the preview.

5. Thumbnail

Jobs for editing appear as thumbnail images. When editing multiple jobs at the same time, or multipage jobs, selecting an image in the thumbnail list displays it in the preview screen. The replacement information list also displays the information of the selected image.

6. Replacement information list

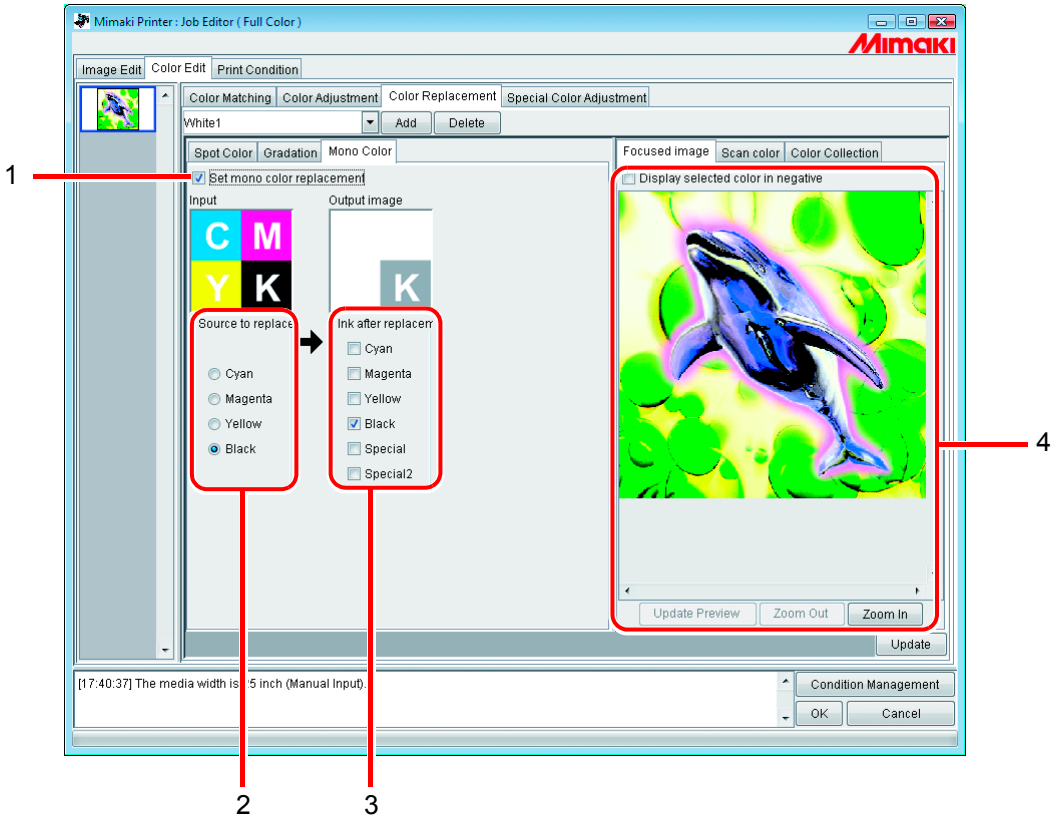
Shows the ink information for the color before replacement and after replacement. The information to display is selected with the radio buttons at the top of the list.

7. Preview screen

Shows a preview of the image. When the cursor is rolled over the preview, the pixel information appears in “Input” information.

Mono Color

Sets Color Replacement of a single color.



1. Set mono color replacement

Allows Mono Color Replacement.

When this is checked, any one color of the input CMYK is allocated to the specified ink.

Light ink cannot be specified.

2. Source to replacement

Specifies the color in the image to replace.

3. Ink after replacement

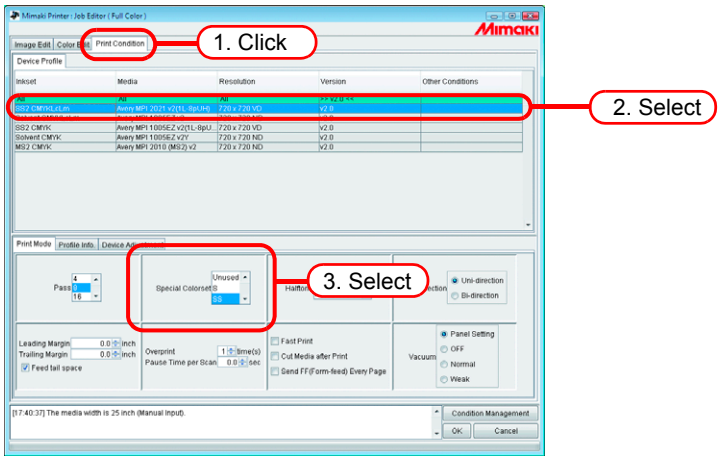
Specifies the color of the ink to use after replacement.

4. Preview screen

Shows a preview of the image.

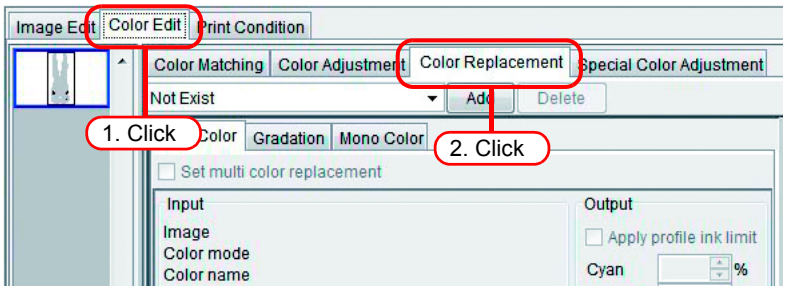
Create a Color Replacement set

1 Click the [Print Condition] menu.
Select a Device Profile for which to create a Color Replacement set.
If the model selected has a special color slot, select “Special Colorset”.
Refer to ☞ P.115 for “Special Colorset”.



Color Replacement set are created for each combination of Device Profile and Special Colorset.

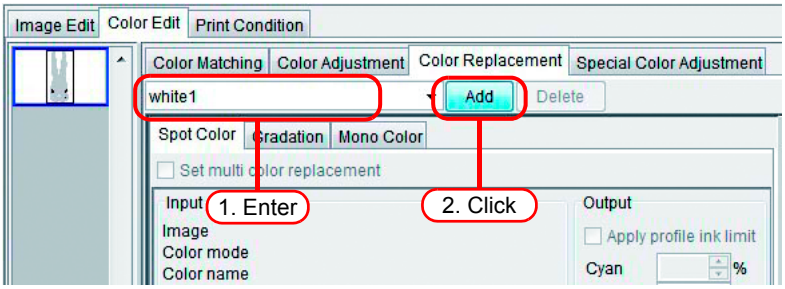
2 Click the [Color Edit] menu.
Click the [Color Replacement] menu.



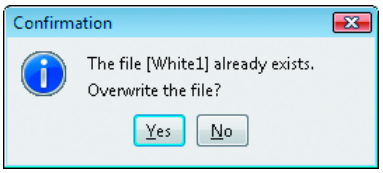
3 Enter a name in the Color Replacement set name field.

NOTE ! The following characters cannot be entered.
\ / : * ? “ < > |

Click Add .

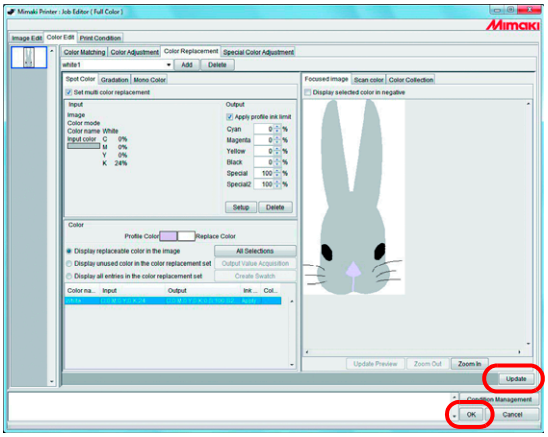


If a Color Replacement set with the same name already exists, an overwrite confirmation message is displayed.



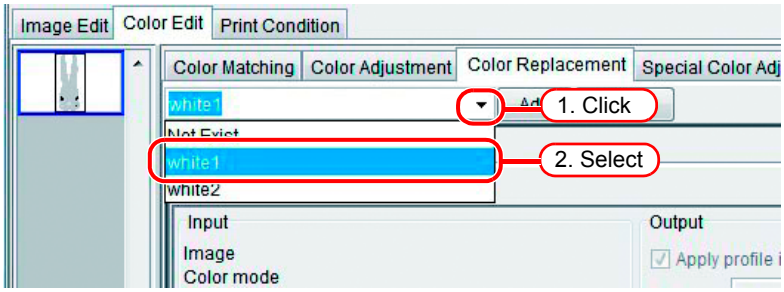
Update a Color Replacement Set

To update the Replacement information, click Update or OK , and finish the “Job Editor”.



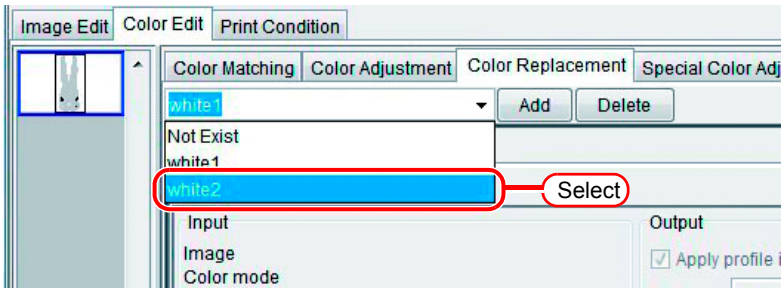
Select a Color Replacement set

Click in the Color Replacement set name input box at the top of the [Color Replacement] menu, and display and select from the list.

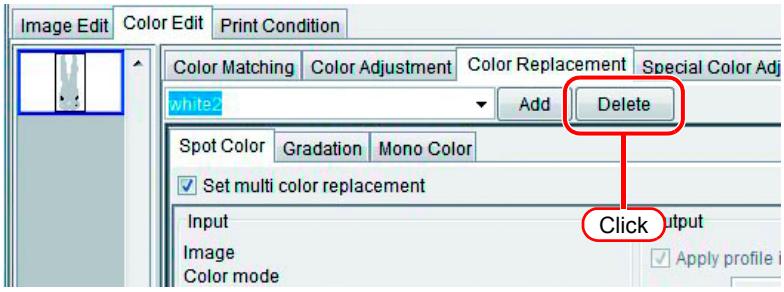


Delete Color Replacement set

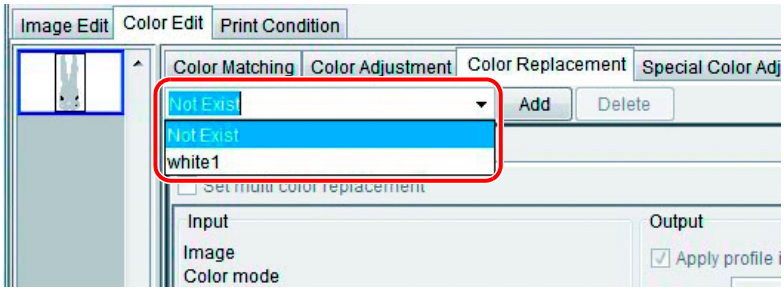
1 Open the “Job Editor” and open the [Color Replacement] menu.
Select a Color Replacement set to delete.



2 Click Delete .



3 The set is deleted.



Replacing spot colors and CMYK colors

This section explains the spot colors and CMYK colors replacement method.

NOTE!

- When replacing CMYK colors, if the same color is being used for a different vector object, that color will also be changed.
- Replacement of colors where Adobe Illustrator filter effects such as drop shadows, transparency, and gradations are applied may not be performed correctly.

Specify the original color for replacement

There are two methods to specify this.

When the original color for replacement is specified, the replacement information setting screen can be edited.

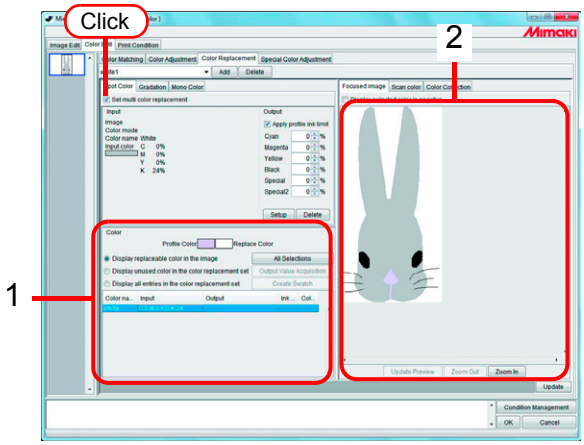
To replace multiple colors, check “Set multi color replacement”.

(1) Select from the Replacement information list
Select the color name from the list for replacement.
Spot colors and registered CMYK colors are displayed.

(2) Select from the Preview screen
Place the cursor over the Preview screen, and click the location for Color Replacement.
Since CMYK colors are not initially displayed in the Replacement information list, select this method.

NOTE!

When a original color is specified, until it is unselected, the color information specified by the cursor on the preview cannot be displayed on the input screen.



Unselect the original color for replacement

There are two methods for unselecting the color.

(1) When the Replacement information list is selected, press the Esc key.

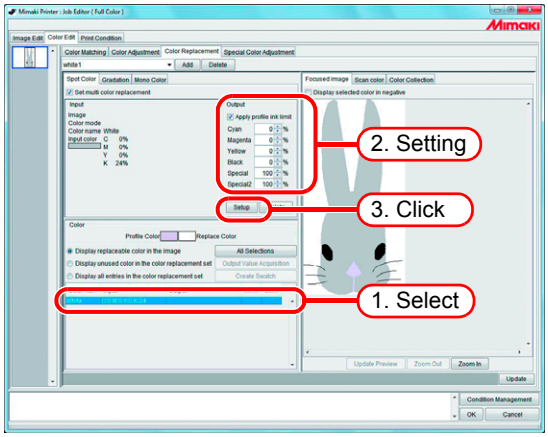
(2) Place the cursor over the preview, and right click.

Create ink information after replacement

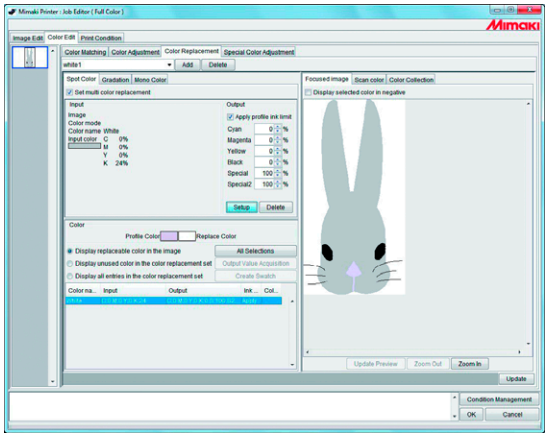
There are two ways to create ink information after replacement: entering an ink density manually, and retrieving it from a color collection.

Entering Ink Density Manually

1 Select the original color to replacement.
In the “Output” information screen, enter the ink density for the color of the ink to use.
Click Setup .



2 The Color Replacement information is set.



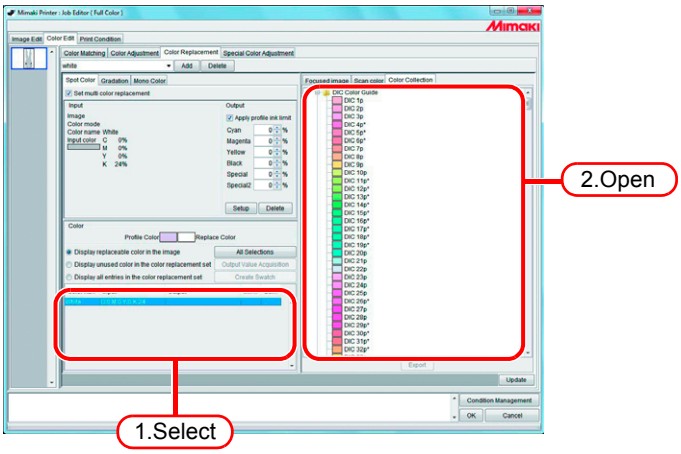
NOTE ! The color reproducibility for DIC colors (output values) in a color collection varies, depending on the currently selected device profile as follows:

- For version 3.0 device profiles containing highly accurate color replacement information:
  Colors closer to DIC colors can be reproduced.
- For other device profiles:
  Accurate colors may not be reproduced.

Retrieving from a color collection1

1 Select a color to be replaced.

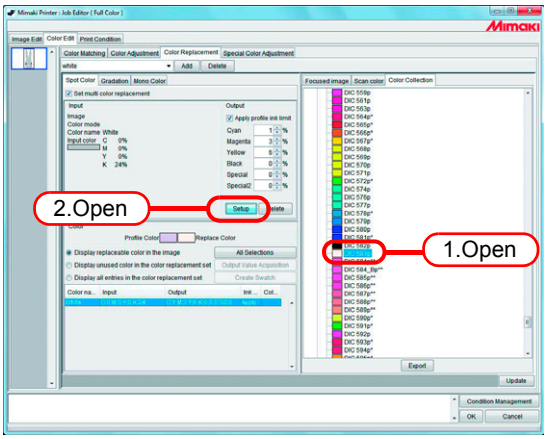
On the Color Collection screen, open a color collection folder for color replacement.



2 Select a color patch.

Click [Setup] .

The color replacement information is set.

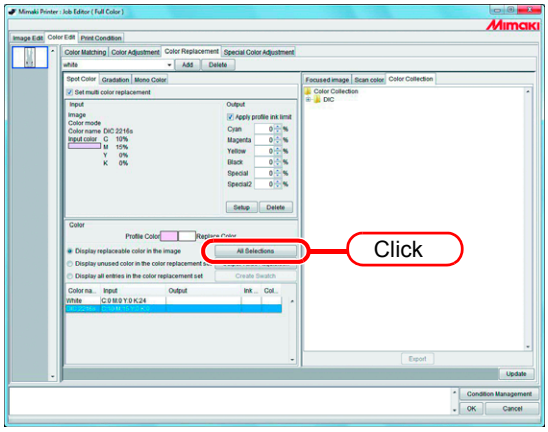


Obtain ink information from color collection2

If the original color to be replaced is a DIC spot color registered in a color collection, the appropriate output value can be automatically retrieved from the color collection without needing to set an individual output value.

1 Click [All Selections].

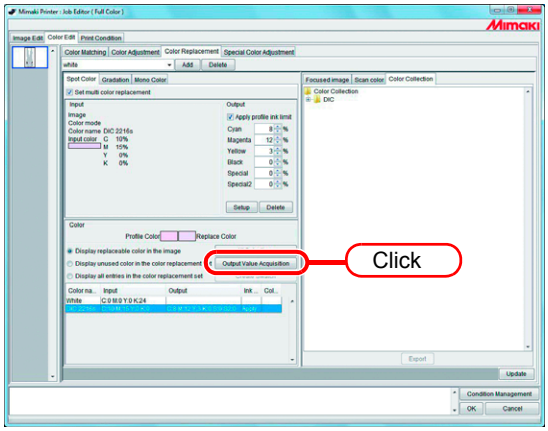
You can select an individual color to be replaced from the list.



2 Click [Output Value Acquisiotion].

If the original color to be replaced is a DIC color, and its replacement color is beyond the color reproducibility of the printer, the color difference between the original color and its replacement color is shown.

-> This indicates that the DIC color cannot be reproduced.



The color replacement information is set.

Retrieving from a color collection3

Colors other than DIC colors in an image can also be retrieved from a color collection and registered into the current color replacement definition file.

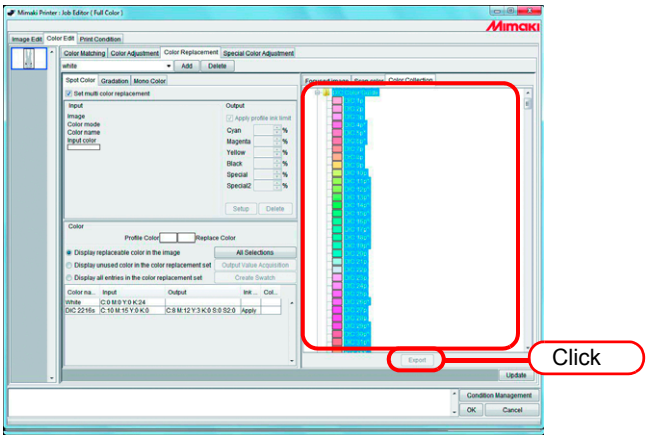
This eliminates the need for setting individual color replacement values by using the color replacement definition file if DIC colors in the image match spot colors registered in the file.

1 On the Color Collection screen, open a color collection folder for color replacement.

Select a color patch.

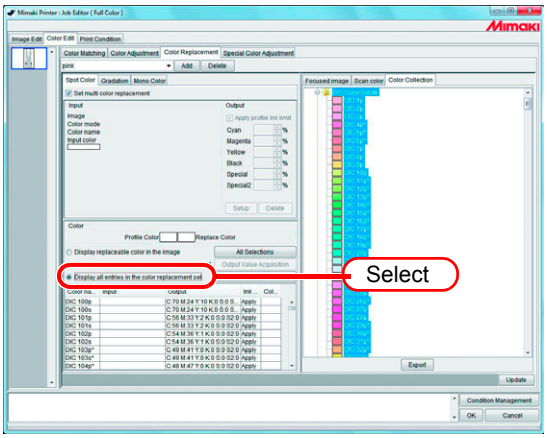
Press the Ctrl key + A key on your keyboard. (You can select more than one patch, pressing the Ctrl key.)

Click Export .



2 Select “Display unused color in the color replacement set”.

The output values for the spot colors not in the image are set.



NOTE!

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

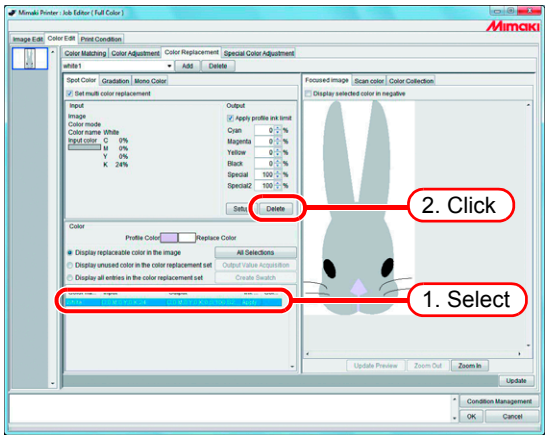
- RasterLinkPro5 sets ink density with respect to a spot color density of 100%. The ink density is calculated automatically based on the spot color density.
  Example:
  If a special color called Spot (display color given by C=100, M=0, Y=0, K=0) is printed at 100% density in one area and at 50% in another in Illustrator, and the ink density for Spot is set to C=0, M=80, Y=20, K=0 in RasterLinkPro5, 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 RasterLinkPro5.
  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 RasterLinkPro5 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.
- Rolling the cursor over a spot color on the preview screen displays the display color that matches the spot color density under the cursor in “Input”. However, if the mouse is clicked, the information displayed in “Input“ becomes the content of the Color Replacement information list independently of the density of the spot color at the clicked point.

Delete ink information after replacement

Select the replacement information to detect the ink information after replacement.

Click Delete on the “Output” information screen.

The Color Replacement information is deleted.



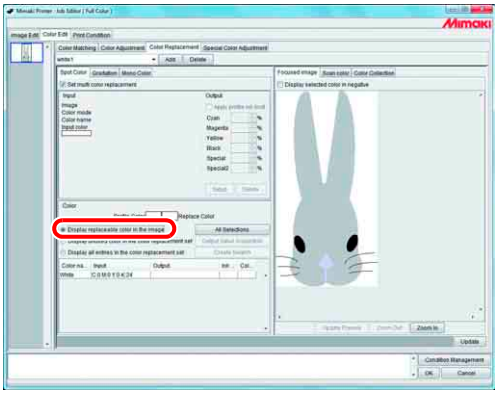
Switch displays

Replacement information list

The Replacement information list can be changed as follows.

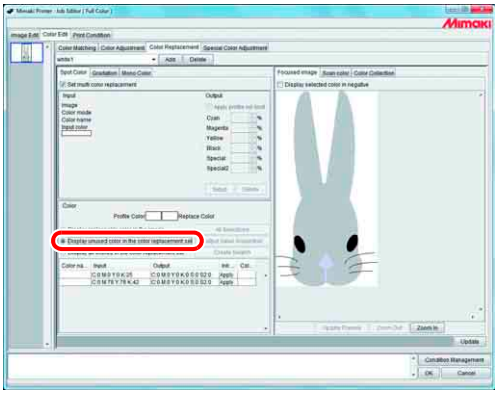
Display replaceable color in the image

Display the color replacement definition whose color replacement can be specified in the color replacement set.



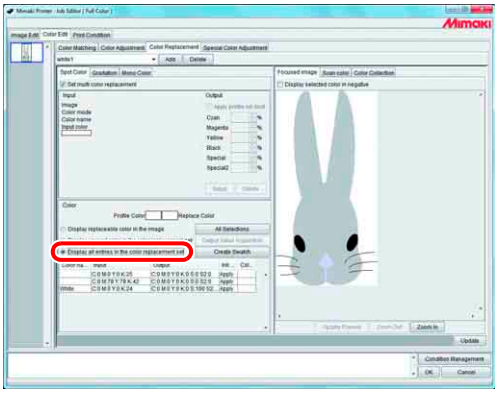
Display unused color in the color replacement set

Display the color replacement definition whose color replacement cannot be specified in the color replacement set.



Display all definitions in the color replacement set

Display all color replacement definition information in the color replacement set.

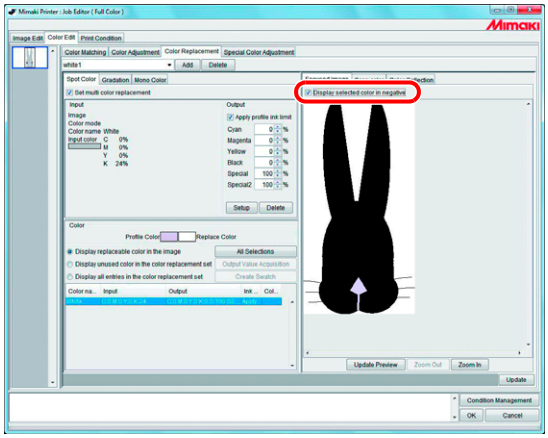


Preview

When [Display selected color in negative] is checked, colors that are currently editable appear flashing in the preview.

NOTE !

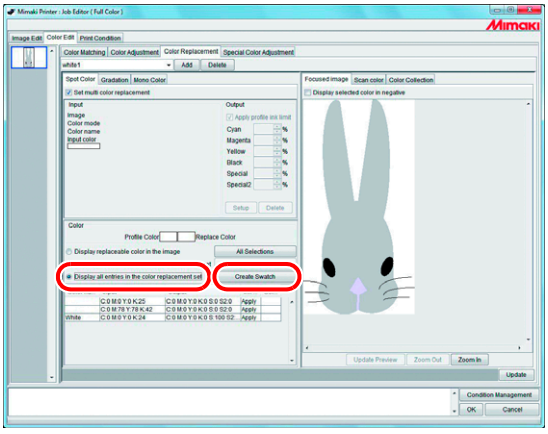
- When [Display selected color in negative] is checked, even when colors for editing are changed, colors that were previously selected appear flashing. To change the locations that appear flashing for reselected colors, click [Update Preview]. Alternatively, check [Display selected color in negative] again.
- When gradation replacement is displayed in negative, only high density parts appear in negative.



Create the swatch library

When you click the [Create Swatch] button, you can create a swatch library using contents registered in the [Color replacement set].

For the creation method, refer to Reference guide - Common features for every printer “Create the swatch library”. (☞P.112)



Replacing gradations

Restrictions on gradations for which Color Replacement is possible

The following restrictions apply to gradations for which Color Replacement is possible.

- Only vector objects created with Illustrator
- Color Replacement cannot be performed for vector objects created with Illustrator that are treated as follows
  - ∗ Objects with “split, extention” applied
  - ∗ Rasterized objects
- Color Replacement cannot be performed for gradations created with Photoshop and for Rasterized gradations.

The colors of gradations that can be specified are as follows.

The combination of maximum density and minimum density of gradations are as follows.

Maximum density (%)

C	M	Y	K
100	1	1	1
1	100	1	1
1	1	100	1
1	1	1	100

Minimum density (%)

C	M	Y	K
0	1	1	1
1	0	1	1
1	1	0	1
1	1	1	0

NOTE !

- 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.

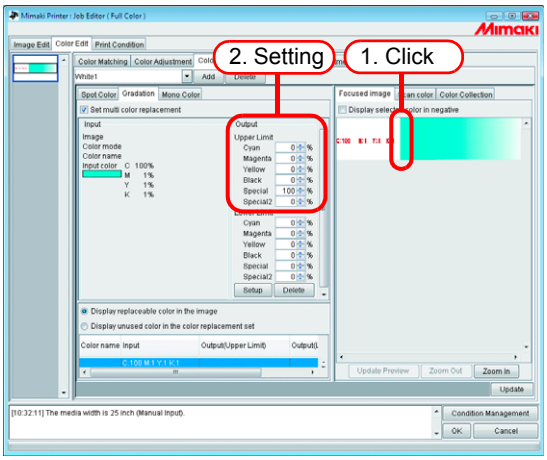
Gradation replacement settings

The settings for Color Replacement of gradations are similar to those for spot colors.

1 Click the maximum density part of the gradation on the preview screen.

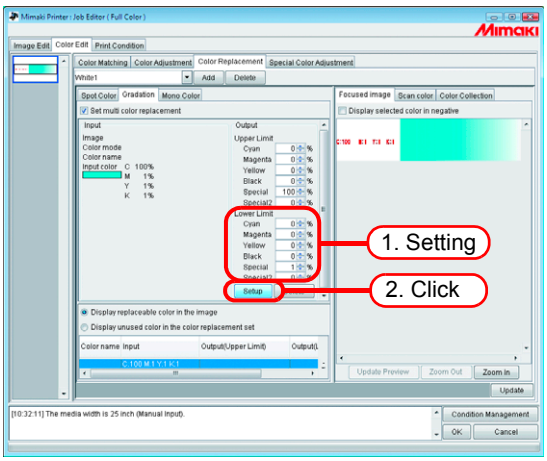
The selected color in the Replacement information list is displayed in negative.

Specify the maximum density area of the ink density after replacement.

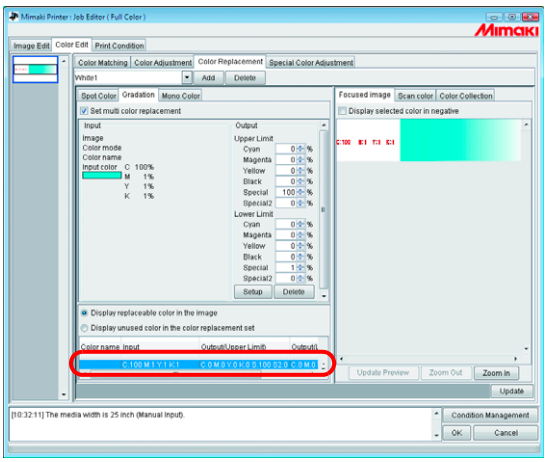


2 Next, specify the minimum density area of the ink density after replacement.

Click Setup .



3 The Color Replacement information is set.



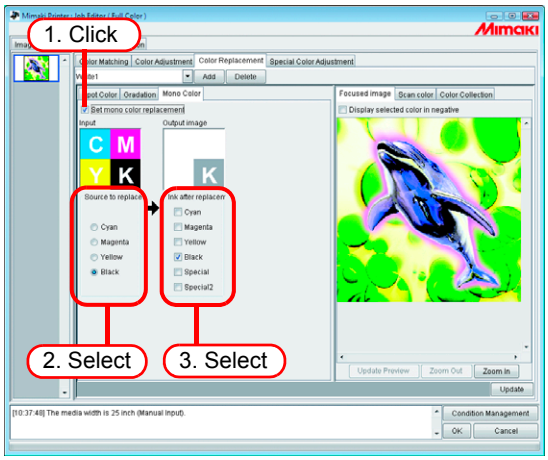
Mono Color Replacement

Open the “Job Editor” and display the [Color Edit] - [Color Replacement] - [Mono Color] menu.

Check “Set mono color replacement”.

From “Source to replacement”, select a color to replace.

From “Ink after replacement”, select ink colors to use for output.



Acquire the color from original document (Scan color)

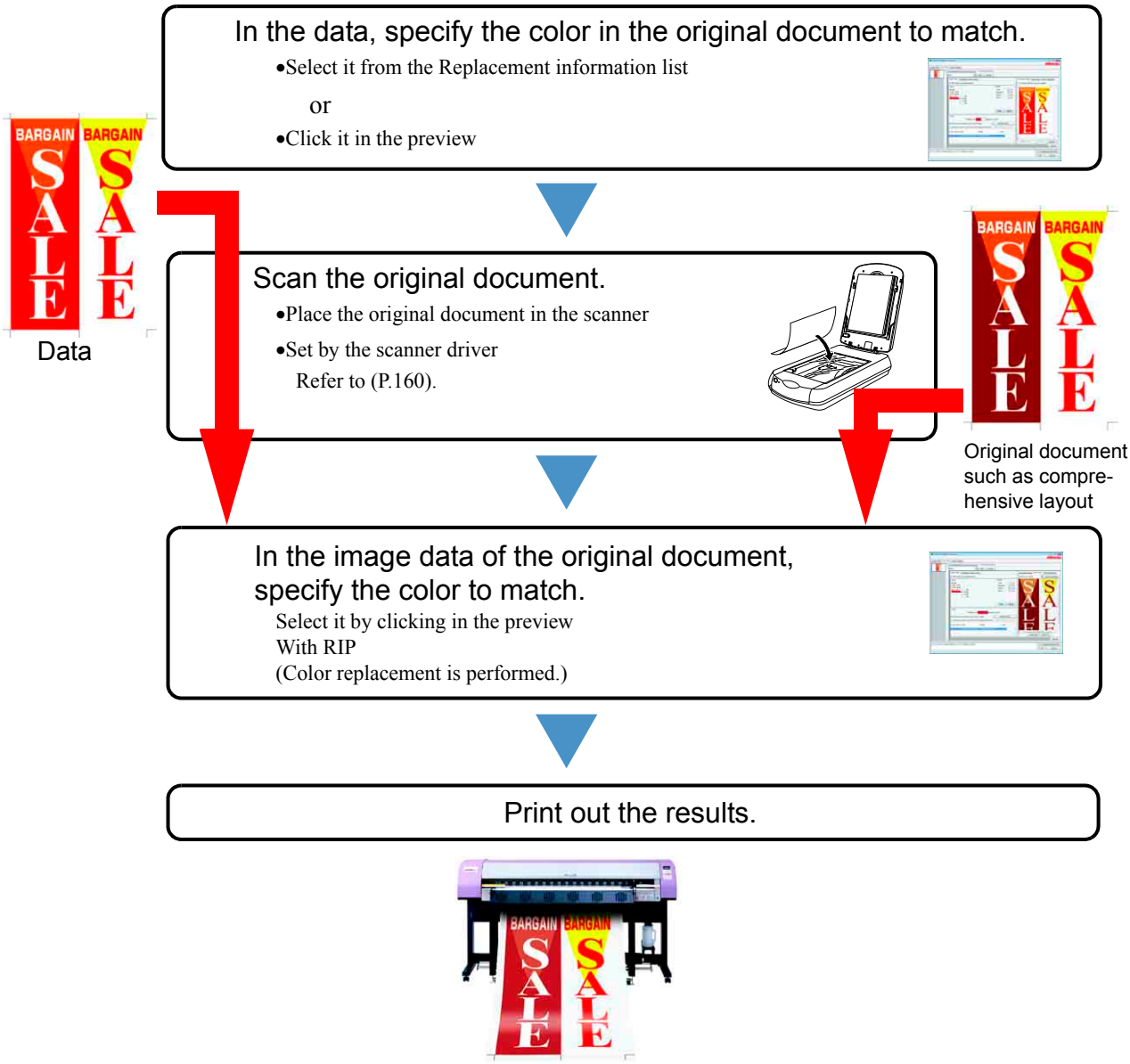
The scanner can be used for specifying the color after Color Replacement. For the types of scanner that can be used, refer to “The color acquisition function and supported scanners” (P.160).

NOTE !

- With this function, color matching with the color read by the scanner is not guaranteed. Be sure to check the colors with a small sample.
- Depending on the original document, the scanner may not be able to scan the colors correctly.
- The range of colors that can be brought closer differs according to the print conditions (Device Profile).
- Color Replacement with a spot colors and CMYK colors only is possible.

Outline of color acquisition

The procedure for color acquisition is as follows.

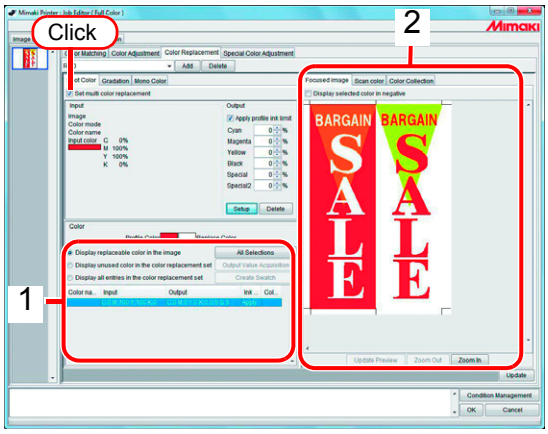


Color acquisition

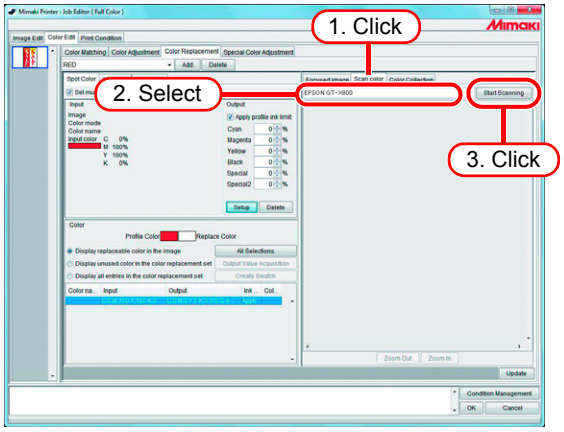
Color acquisition operates as one function of Spot Color Replacement. With Spot Color Replacement, a value for ink density after the source to replacement is replaced is specified, but with this function, instead of the ink density setting after replacement, the color information scanned with the scanner is set.

1 Click the [Spot Color] menu.
Select the color to be replace.

1. Select from the Replacement information list
   Select the color name or CMYK value from the list for Color Replacement.
2. Select from the Preview screen
   Place the cursor over the Preview screen, and click the location for Color Replacement.



2 Click the [Scan color] menu.
Select the type of scanner to use.
Check that the scanner is turned on, and click Start scanning.
The scanner driver screen (TWAIN screen) appears.

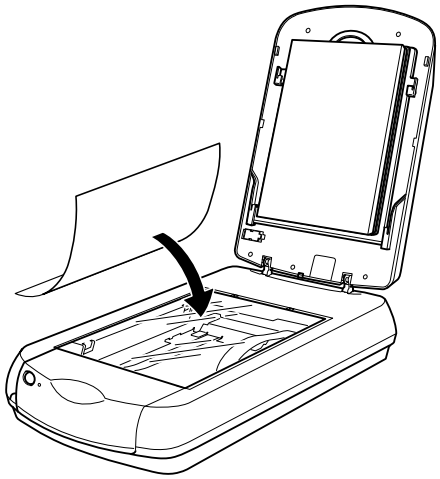


3 Place the original document in the scanner and scan it.

Set the scanner driver according to “Scanner driver settings” (P.161), and scan the original document.

NOTE !

- When scanning the image data, it is necessary to use the settings for color acquisition set in the scanner driver screen (TWAIN screen). The settings differ according to the type of scanner. For details, refer to “The color acquisition function and supported scanners” (P.160).
- Refer to the manual packaged with the scanner for how to operate the scanner.

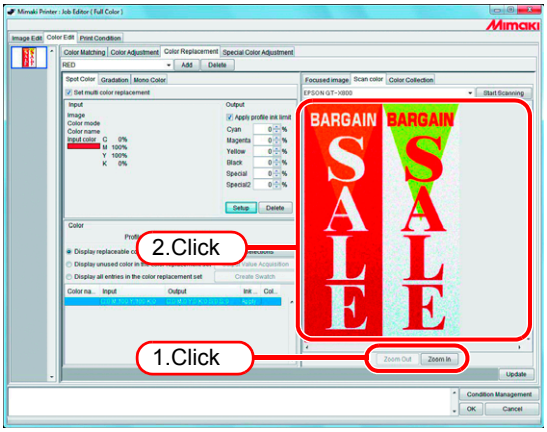


4 The scanned image data appears in the preview.

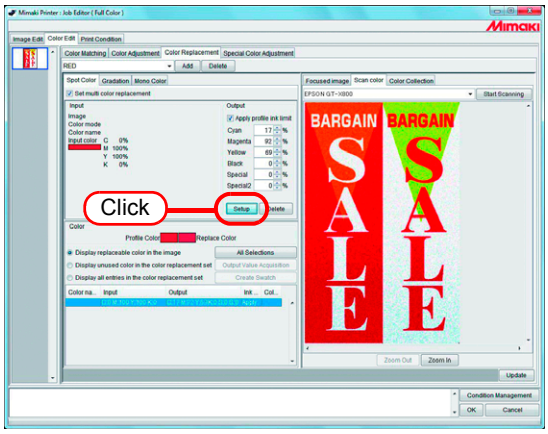
Use Zoom In and Zoom Out to display the color area to acquire, and click the color.

The value where clicked is set as the ink density after replacement.

Click a part that the color is uniform.



5 Click Setup to set the color acquisition information.



Color Collection

Printing by Approximating DIC Color Guide

This chapter describes how to create data in Adobe Illustrator and how to configure the RasterLinkPro5 for the situation where you are printing using the RasterLinkPro5 approximating the DIC color guide.

Configuration Procedure

1. Create spot color data in Illustrator

In Adobe Illustrator, create data by specifying DIC color guide in the swatch library

2. Configure the RasterLinkPro5

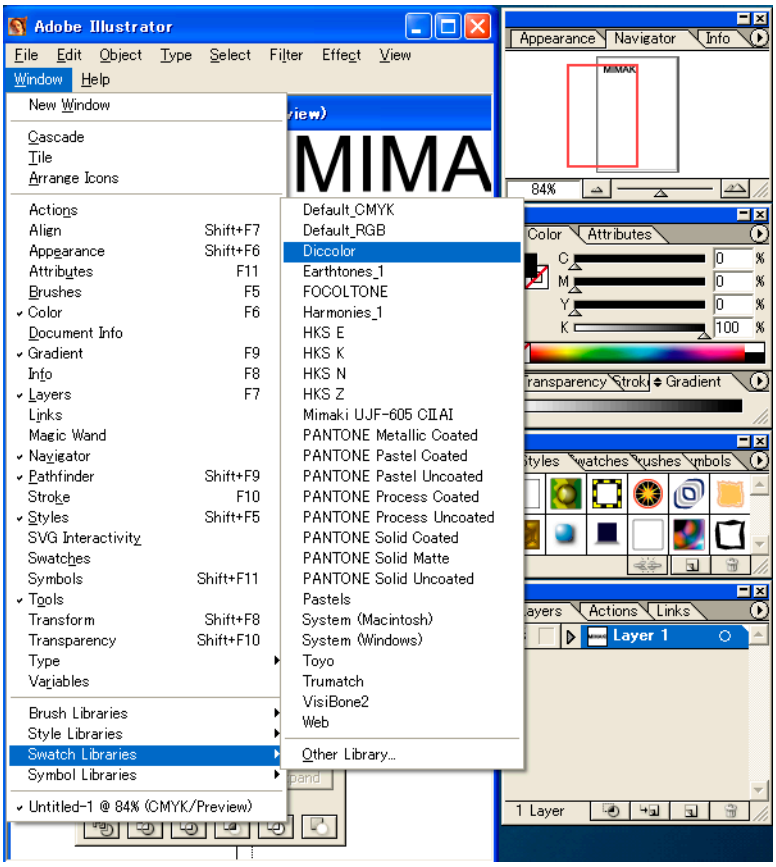
Configure the RasterLinkPro5 to perform color replacement on the DIC color guide spot color created using Adobe Illustrator

Create spot color data in Adobe Illustrator

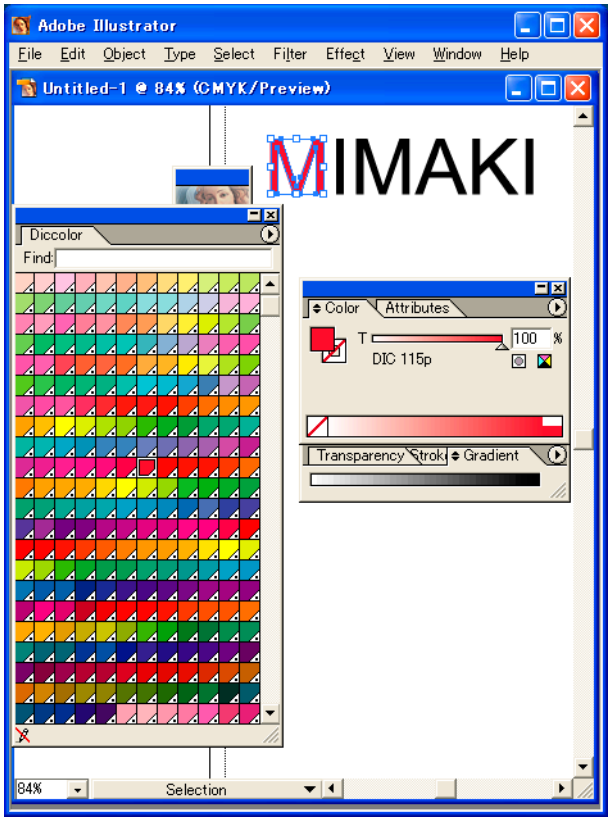
NOTE ! Although this manual describes the procedure for Adobe Illustrator 10, the configuration method is the same as Illustrator 8, 9, CS, CS2, CS3, CS4, and CS5.

1 Open the data that specifies the spot color in Adobe Illustrator.
Select [Window] - [Swatch Libraries] - [Diccolor] from the menu to display a list of the DIC color guide swatch library.

- For Adobe Illustrator CS2, select [Window] - [Swatch Libraries] - [Diccolor Guide] from the menu.
- For Adobe Illustrator CS3 to CS5, select [Window] - [Swatch Libraries] - [Color Books] - [Diccolor Guide] from the menu.



2 Select the artwork you want to set to the DIC color, and select any color from the DIC color guide swatch library list.



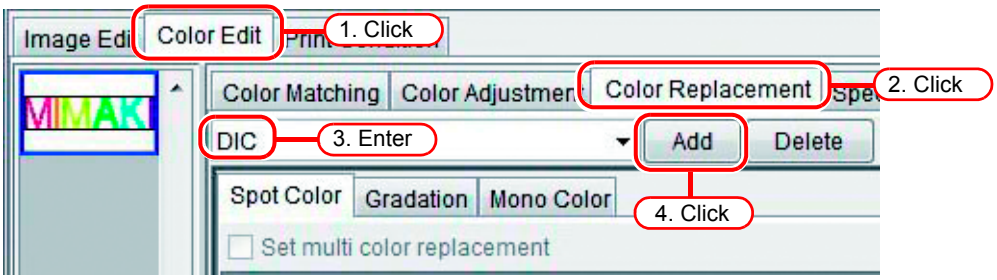
3 Save the data as printer driver output or as EPS, then copy the data to the hot folder.

Configuring the RasterLinkPro5

Use the RasterLinkPro5 to perform color replacement and print a data created in Adobe Illustrator that specifies a DIC color guide spot color.

1 Spool the data to the RasterLinkPro5 and open Job Editor.

2 Open the “Color Replacement” tab in the “Color Edit” tab and create a color replacement set.

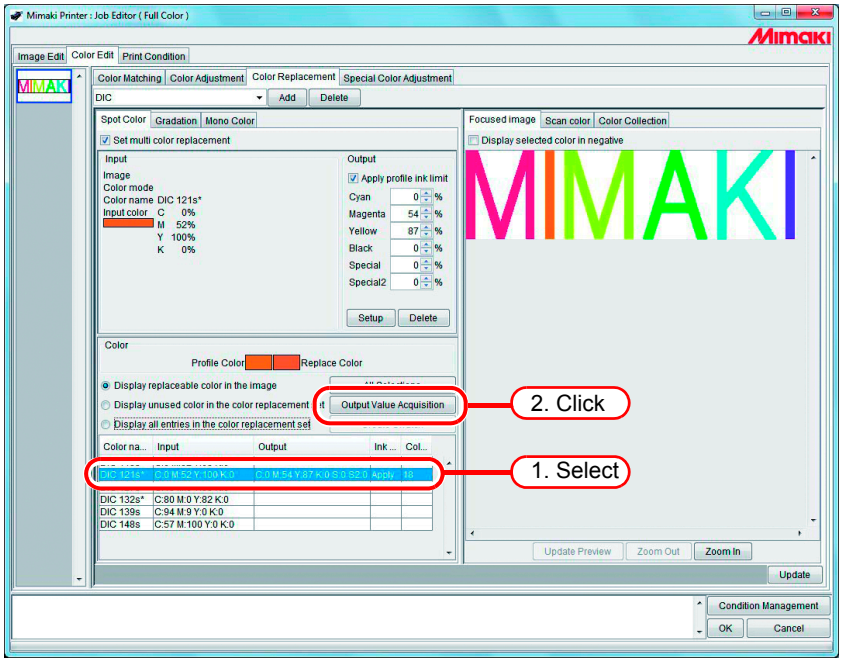


3 Specify the color replacement information.

- To perform color replacement on a selected color name

(☞P.83 Obtain ink information from color collection2)

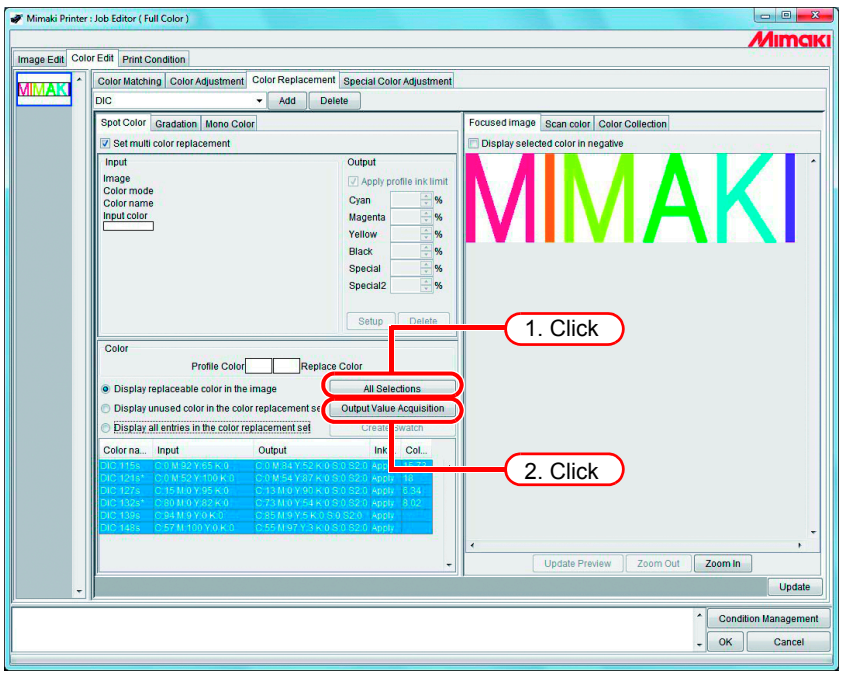
Select the color name for color replacement, and click the Output Value Acquisition button.



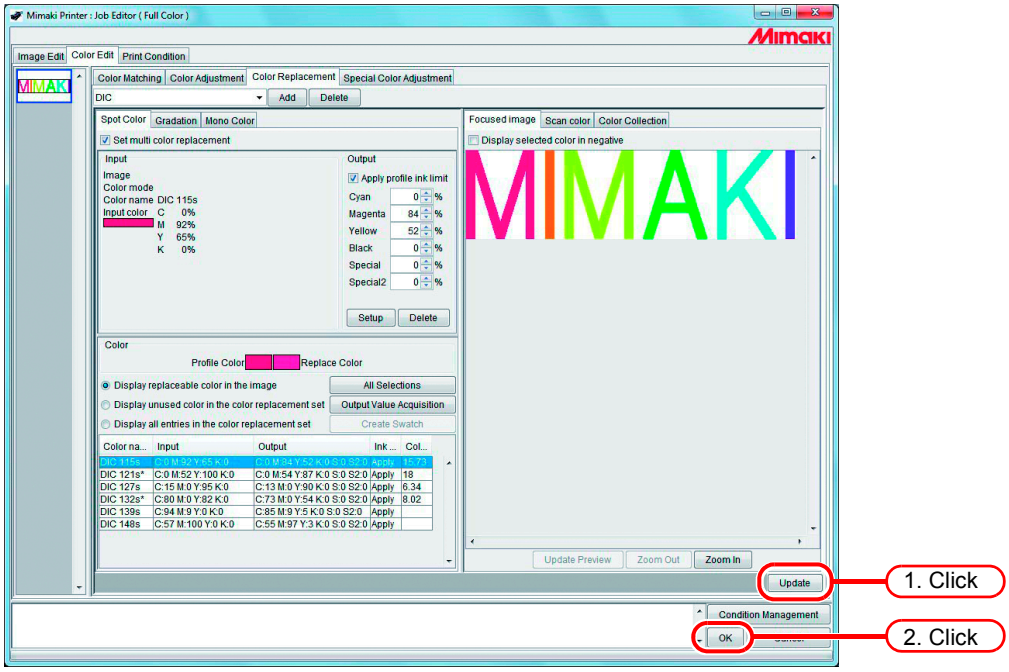
- To perform color replacement on all color names

(☞P.83 Obtain ink information from color collection2)

Click the All Selections button and then click the Output Value Acquisition button.



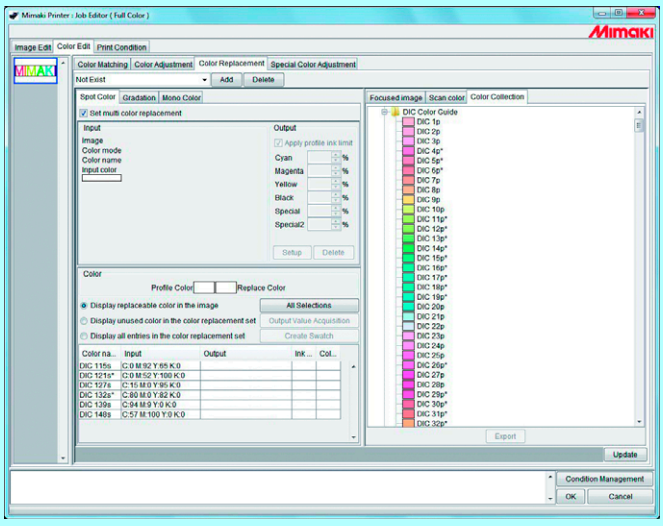
4 Click the Update and OK buttons to save the job settings.



5 Execute the printing.

The RasterLinkPro5 has 4 color collections that support the Adobe Illustrator DIC color guide. You can check the details of the color collections by selecting [Color Edit] - [Color Replacement] - [Color Collection].

Adobe Illustrator version	DIC Color Guide name	Color Collection name
8 - CS	DIC Color Guide	DIC 1p - DIC 654p*
	DIC Color Guide PART2	DIC 2001p - DIC 2638p
CS2 - CS5	DIC Color Guide CS2	DIC 1s - DIC 654s*
	DIC Color Guide PART2 CS2	DIC 2001s - DIC 2638s

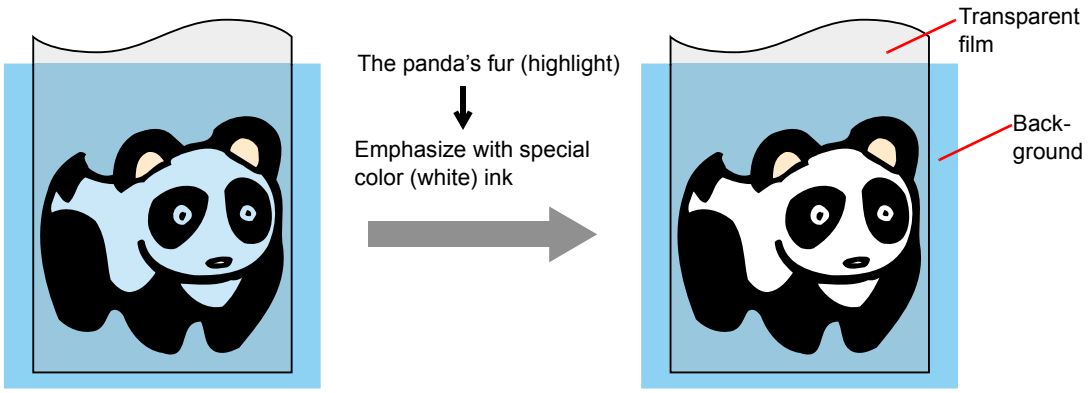


Special Color adjustment (GP-604S only)

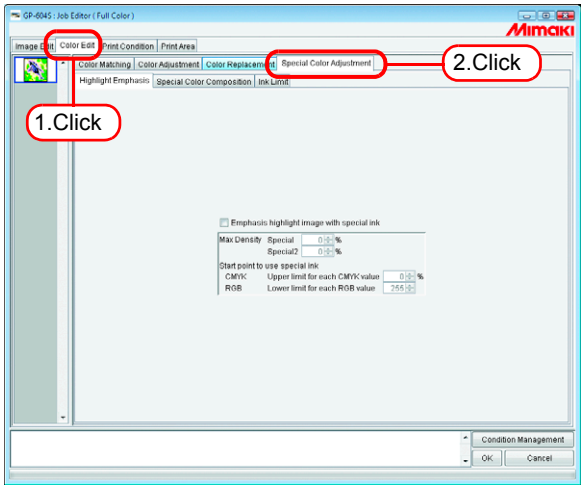
To perform special color adjustment, [Print Condition] - [Print Mode] - [Special Colorset] must be selected.

Emphasize highlights with special color

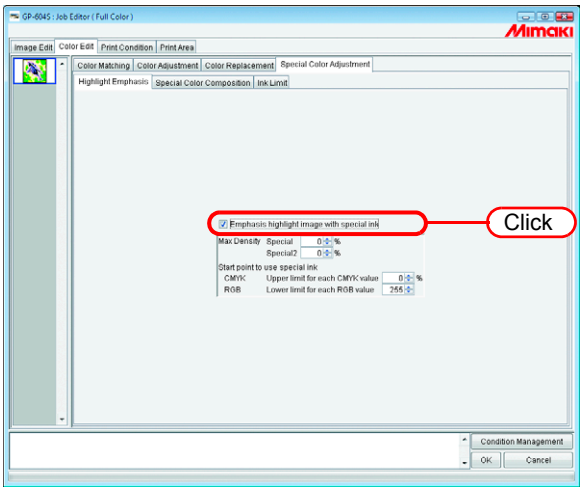
Image highlights can be emphasized with special color. This is effective for making highlights stand out when printing on transparent film.
Adjustment is possible for both CMYK images and RGB images.



1 Click the "Color Edit" menu.
Click the "Special Color Adjustment" menu.

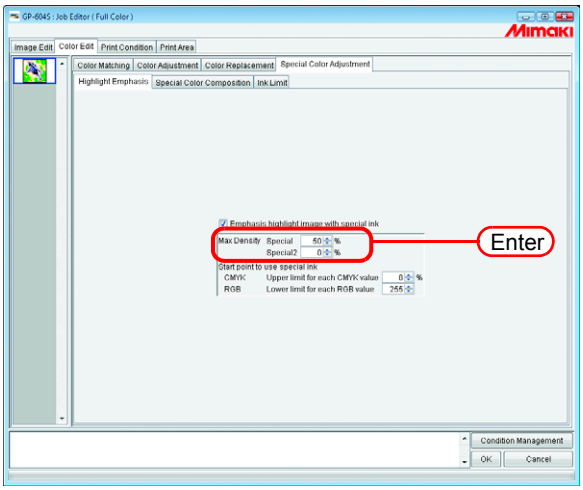


2 Check “Emphasis highlight image with special ink”.



3 Specify a maximum print density of special ink between 0 and 100% for printing the highlight.

For maximum density, only the number of special color inks selected in the special colorset can be specified.

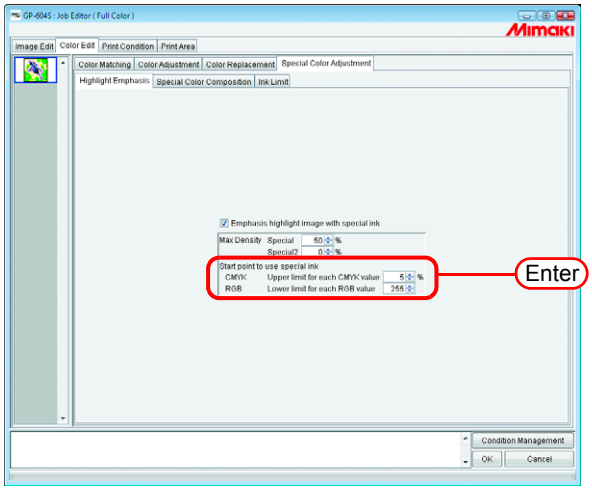


The maximum density specified here is the density of the location with the least amount of ink in the highlight area (i.e. pure white). The density of special color ink is calculated and adjusted automatically according to the amount of ink of the highlight area.

4 Specify the point of the highlight area to start printing with special color ink.

For CMYK images, specify a range of 0 to 20% for each color as the upper limit. Highlight areas lower than this value will be printed with special color ink.

For RGB images, specify a range of 204 to 255 for each color as the lower limit. Highlight areas higher than this value will be printed with special color ink.

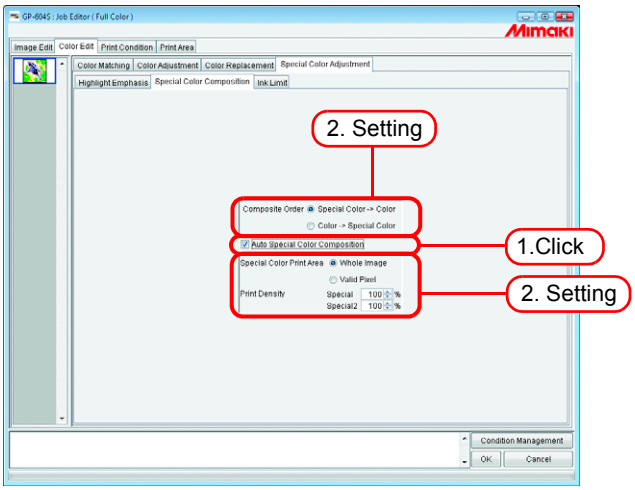


Automatically create a special color layer

Print a “color image” overlapping a “single color special ink image (special color layer), automatically created based on the color image”.

> **NOTE !** Auto Special Color Composition cannot be performed if the job matches the following conditions:
> - Paneling
> - Group
> - Multipage

Set the composition method.



“Composite Order”

“Special Color -> Color”:
Outputs the special color layer first, then the color layer on top of it.
“Color -> Special Color”:
Outputs the color layer first, then the special color layer on top of it.

“Special Color Print Area”

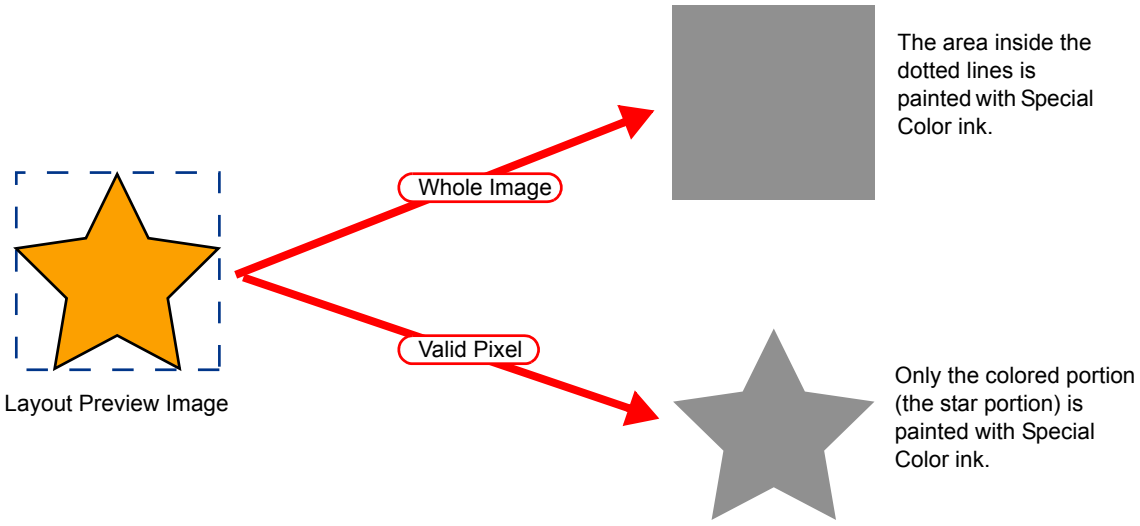
“Whole Image”:
Outputs a special color layer of the same size and shape surrounded by a dotted line in the layout preview.
“Valid Pixel”:
Outputs a special color layer with only the colored parts of the image.

“Print Density”

Specify a density of special ink between 0 and 100% for outputting the special color layer. For print density, the number of special color inks selected in the special colorset can be specified.

Example of “Auto Special Color Composition”

On the “Layout Preview”, set the image as shown below:



NOTE ! When specifying “Valid Pixel” and the image has a blank part (highlighted part without color), the special color will not be printed on that blank part.
In this case, also use the “Emphasize highlights with special color” function (☞ P.101) at the same time.

Example of “Composite Order”

The image as shown below on the “Layout Preview” will be output as follows:

“Special Color Print Area”..... Whole Image

“Composite Order” ..... Special Color -> Color

Layout Preview Image

[1]
The square area shown with the dotted line in the “Layout Preview” is fully printed with special color ink.

[2]
The Color Layer is output overlapping the special color Layer.

Editing Ink Limit

You can edit the amount of special colors. The specified values can be registered as a special color adjustment set.

Creating a special color adjustment set

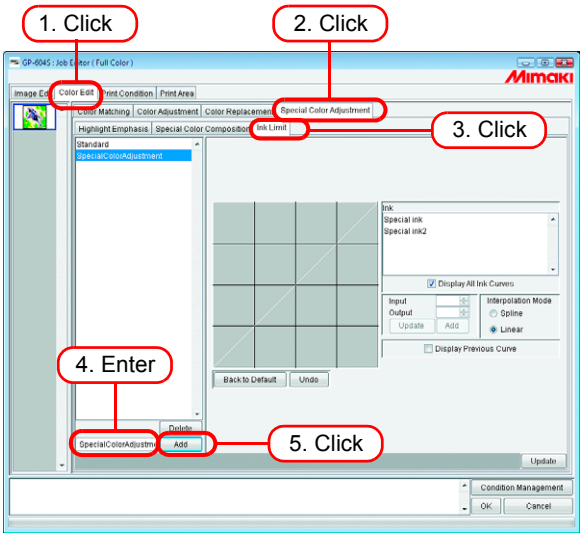
Create a special color adjustment set for each special color set.

1 Click the [Color Edit] menu.
Click the [Special Color Adjustment] menu.
Click the [Ink Limit] menu.
Enter a name for the special color adjustment set.

NOTE ! Important The following single byte characters cannot be used for special color adjustment set names.
\ / : ? " < > |

Click Add .

If a special color adjustment set with the same name already exists, an overwrite confirmation message is displayed.

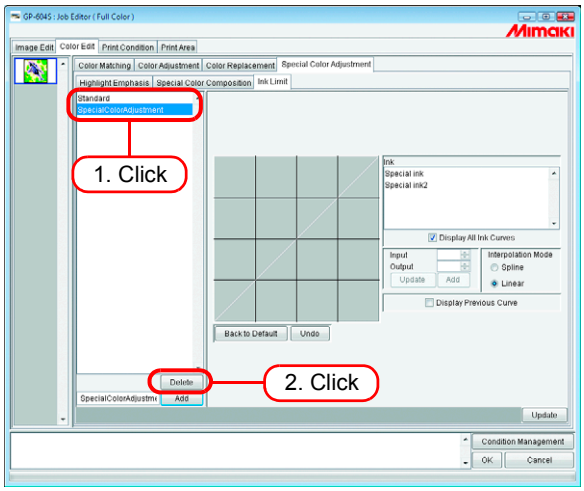


- To create a new special color adjustment set, select “Standard”. Then enter a set name, and click Add .
- To copy a previously registered special color adjustment set, select the set to edit and after changing the set name, click Add .

Deleting a special color adjustment set

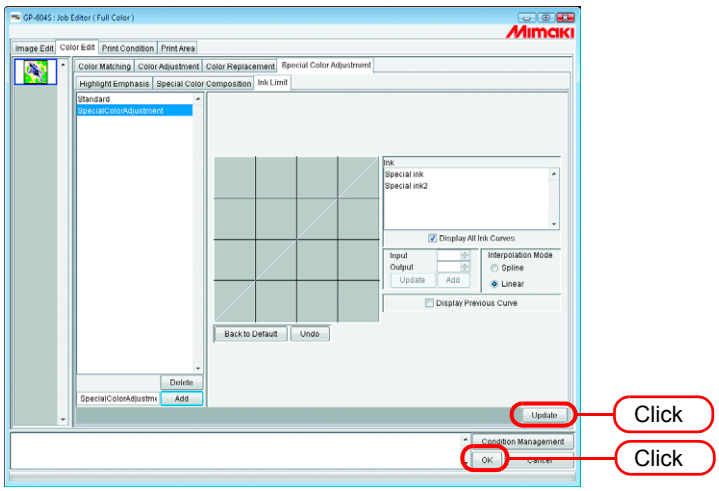
Click a registered special color adjustment set.

Clicking Delete deletes the selected color adjustment set.



Updating a special color adjustment set

To update the special color adjustment set that is set, click Update or OK, and finish the Job Editor.



NOTE ! When a special color adjustment set is updated, the changes are also applied to other jobs that use the same special color adjustment set. If the changes are applied to a different job with already RIPped data, if “Print only” is performed the print results may differ. Either perform RIP again, or update the special color adjustment set or create a new one.

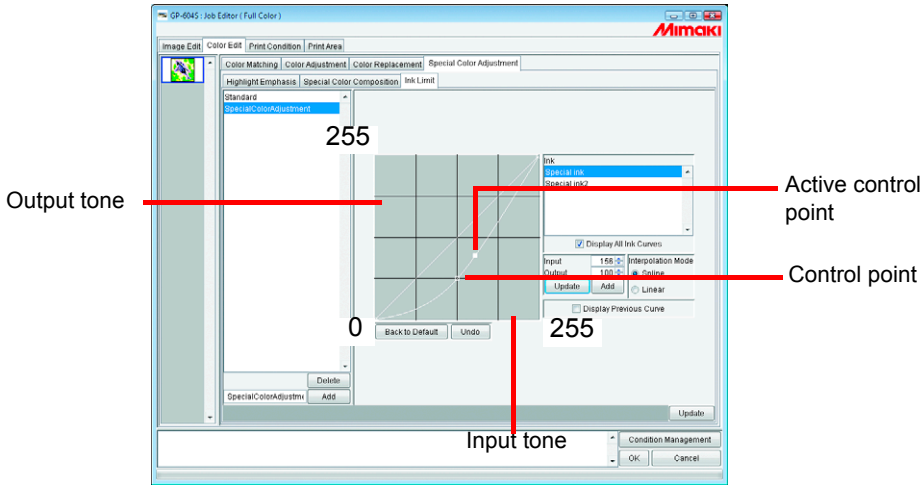
Adjust the ink curve

Display the special color ink curve selected in “Special Colorset”. The horizontal axis shows the ink density before adjustment (input tone), and the vertical axis shows the ink density (output tone) after adjustment. Both vertical and horizontal axes display a range from 0 to 255. If the output tone is less than 0, it is set to 0. Furthermore, if it is more than 255, it is set to 255. Click a point to adjust on the ink curve to make a control point. You can add up to 30 points. Selected control points change from outline rectangles to solid rectangles.

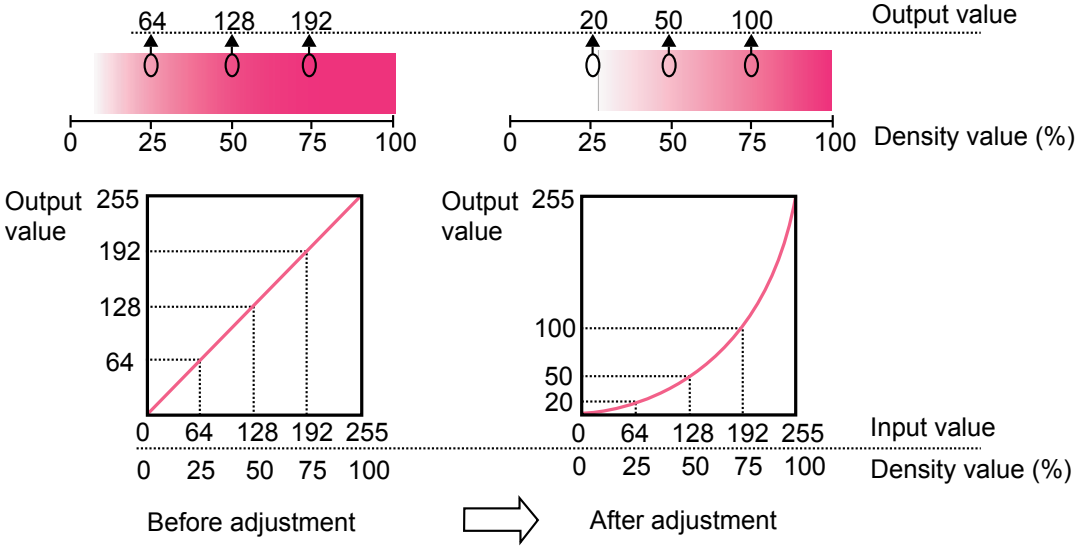
The operation for setting the ink curve is the same as that for CMYK ink. (☞ P.61)

NOTE !

Ink curves for special colors are applied to Color Replacement only. They are not applied to Auto Special Color Composition, Automatic Clear Composition, and Emphasis highlight with special ink.



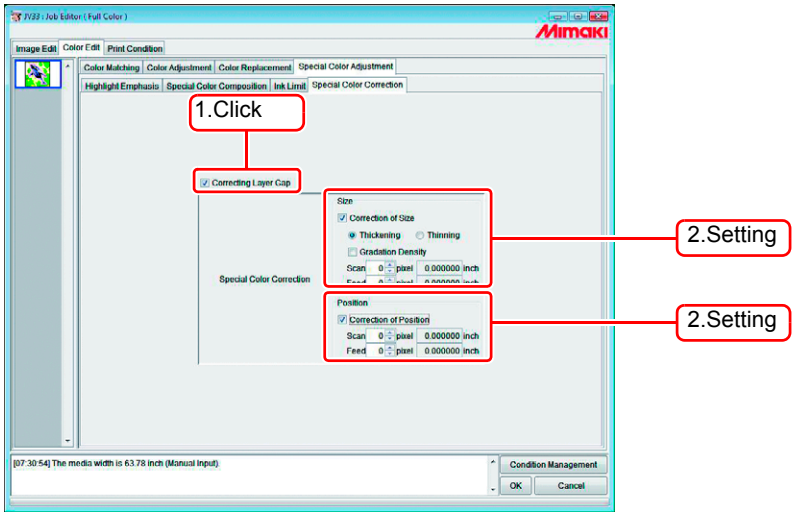
An example of ink curve application when using special colors on the “Gradation” menu in the “Color Replacement” menu.



Special color image correction function

When you wish to solve the following problems, set the special color image correction function.

- When you print special color images (white) and color images by overlapping them, they may be misaligned in some cases, and when you wish to correct this
- 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

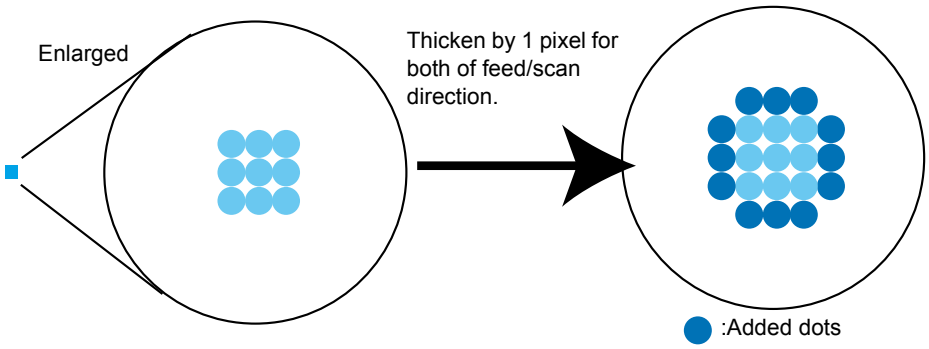


[Correction of size.]

Correct the size of the special color image.

Thickening	:	Thicken the special color image by the specified pixels (for feed/scan direction).
Thinning	:	Thin the special color image by the specified pixels (for feed/scan direction).
Gradation Density	:	This becomes enable when [Thickening] is selected. The ink density of thickened part changes outwards in gradation.

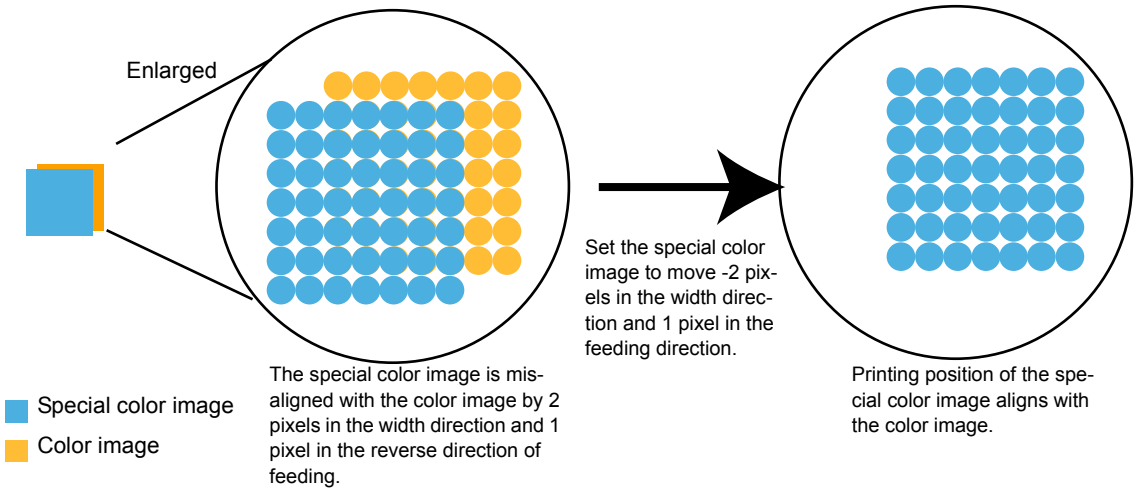
Ex.: When you set the special color image to thicken by 2 pixels for both of feed/scan direction



[Correction of position.]

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

Ex.:When color image and special color image are misaligned as below:



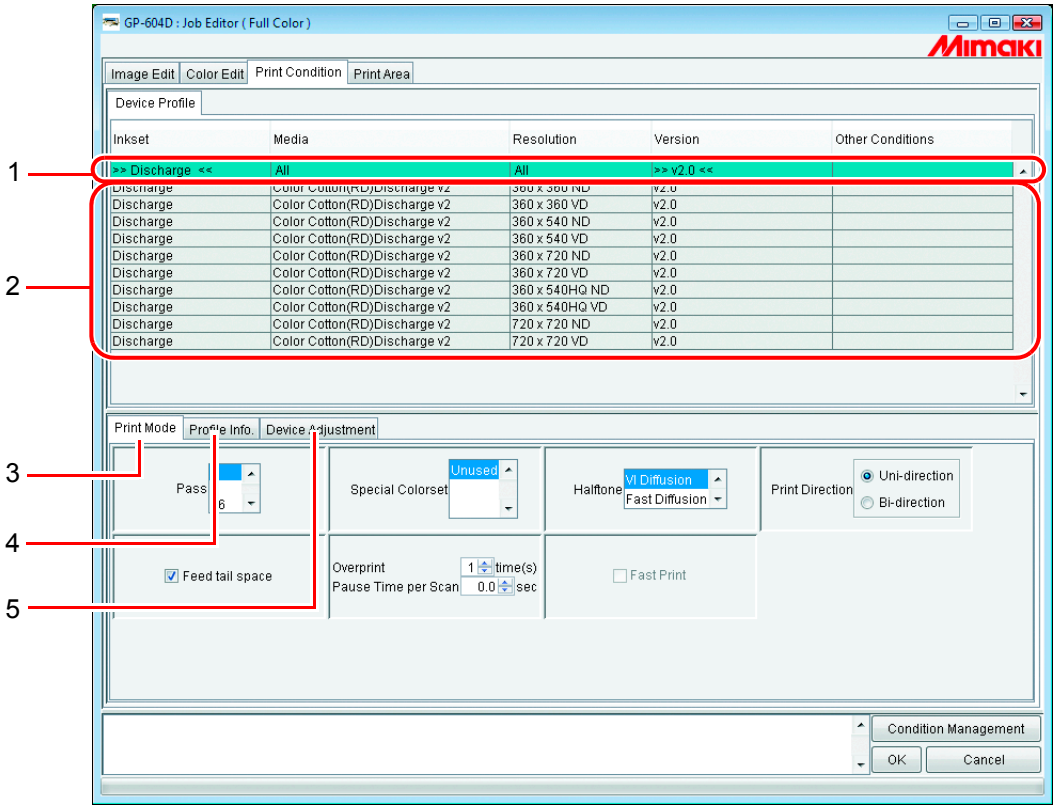
NOTE !

- When you set the followings in the image editing screen, special color correction cannot be performed:
  Copy, cut line printing, register mark printing, double-sides printing and paneling
- Special color correction cannot be performed in the following jobs:
  Has several pages, RIP split image and application split image job
  Though you performed imposition on several jobs, the overlap printing is set to OFF.
- The value of the special color correction is not reflected on the preview of the image editing screen.
- When you print on both sides, uncheck the box of “Printed Information Label” - “Add Label”. If printed information label is added at printing on the front side, the printed position may be misaligned to the feeding direction by the amount of the printed information label at printing on the back side.

Editing Print Condition

Set the print conditions.

> **NOTE !** If multiple jobs are set to Group, all the jobs become same print condition. When you print using the printing condition set by the RasterLinkPro5 TA, be sure to set the “Priority Order” of the printer main body to “HOST”.
> If you set it to “PANEL”, the printing condition set by the RasterLinkPro5 TA is ignored, and printing will be performed using the printing condition set at the printer side.
> (For the details of setting method of “Priority Order”, refer to the operation manual of the printer.)



1. Refining the device profile

Displays the refined device profile.(☞ P.114)

2. Device Profile list

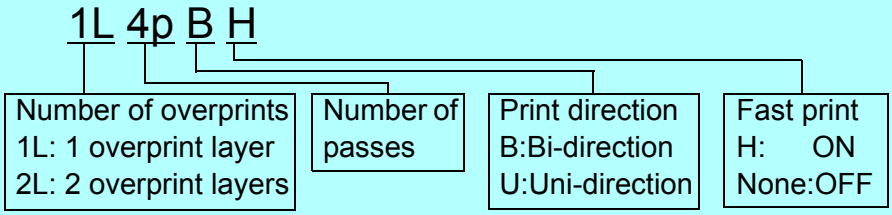
Indicates profiles for optimum printing.
Click and select the profile to be used.

> **NOTE !** Select the device profile depending on the ink set of the printer main body. For example, when you fill up six-color ink in the printer main body, even if you select the seven- or eight-color device profile at the RasterLinkPro5 TA side, you cannot print properly.

NOTE!

- The available resolution depends on the Device Profile that is pre-installed.
  In case the corresponded Device Profile is not exist, install the appropriate profile. (The corresponded profile may not be preinstalled.)
- Device profiles contain the recommended print condition settings (number of passes/number of overprints/print direction/whether fast printing). If conditions other than these are used, a suitable print quality cannot be obtained.
  Device profiles are created with the optimal conditions for each media, so use the device profile for the media you are using. If the media and device profile do not match, a suitable print quality may not be able to be obtained.
  Use the following procedure to set the recommended values of the device profile as the print conditions.
  When the profile version is V3:
  Select the profile to automatically set the recommended values.
  When the profile version is V2:
  Select the profile to set the initial values. These values are not the recommended values of the profile. For a profile with the recommended values included in the media name, follow the instructions below to set the recommended values as the print conditions.

  Example 1:If the media name is “UV-PET v2(1L4pBH)”, the values in parentheses are the recommended values.



  * If a hyphen (-) is inserted between the number of overprint layers and number of passes, the values are basically the same as the above.

  Example 2:If the media name is “PVC Gloss(1Layer)”, the value in parentheses indicates the number of overprint layers.
  1Layer: 1 overprint layer
  2Layer: 2 overprint layers

  In the case of a profile that does not include the recommended values in the media name, perform a test print with the initial values, and change the print condition settings if you determine the print quality to be poor.

3. [Print Mode] sub menu

Set the various print mode.(☞P.115)

4. [UV mode] sub menu[Profile Info] sub menu

Displays the information of a Dvice Profile.(☞P.117)

5. [Device Adjustment] sub menu

Set the Feed Correction and Heater Temperature value.(☞P.118)

6. [Calibration] sub menu (☞P.120)

The Calibration submenu appears if the currently selected device profile is of version 3.0 and it contains calibration and/or equalization information.

Specify whether calibration and/or equalization information are to be applied or not for a RIP process.

Calibration (Info): ..... Adjusts the colors of the current printer to match those in its specific state such as its initial state (and information for calibration).

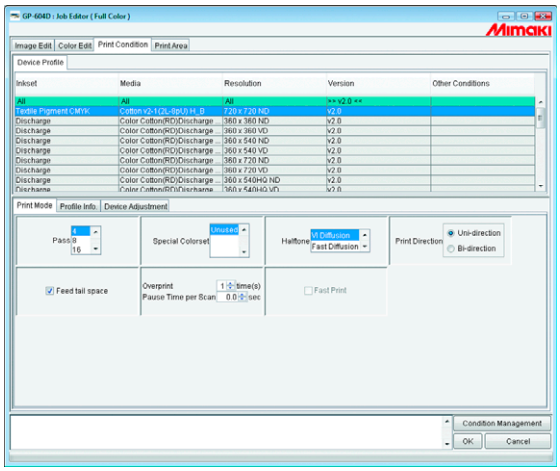
Equalization (Info): .... Adjusts the colors of the current printer to match those of a target printer (and information for equalization).

NOTE! To use these features, a version 3.0 device profile needs to be created with the Mimaki-supplied profile creation software called “MimakiProfileMaster II”, and it needs to contain calibration and/or equalization information.
The Mimaki-supplied version 3.0 device profile does not contain calibration or equalization information.

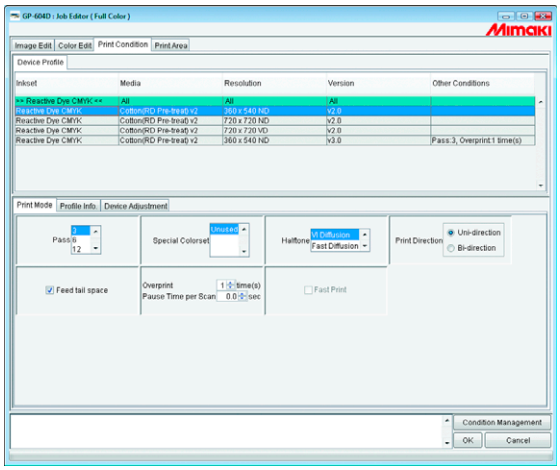
Device Profile Refined Display

Displays the information included in the profile such as inkset, media, resolution, version to display refined profiles that meet the specified conditions.

Specify the conditions for refining your search in the first, green row of the list.

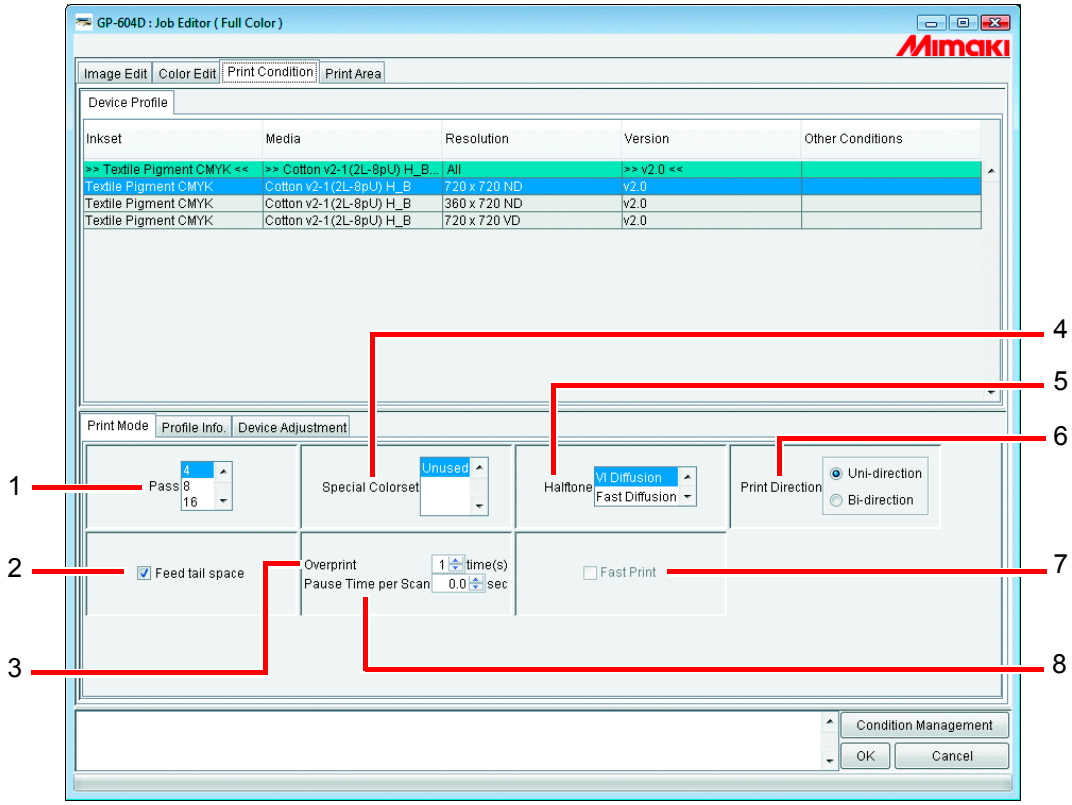


When Inkset refines the Reactive Dye CMYK profile



[Print mode] sub menu

Set a print mode.



1. Pass

Specify how many divisions one band is to be printed in.

The larger the number of divisions, the higher the print quality. However, the larger the number, the longer the time to be taken for printing.

2. Feed tail space

If there are some spaces at the end of image (upper part of the original image), set whether the space part will be fed or not.

3. Overprint

Set the frequency of overprinting per line.

When you would like to use the output profile (for 2 layers) for overlaying printing, input “2” at the Over print.

4. Special Colorset

Selects the special ink to use after replacement.

The following items can be selected.

S: ..... Use one special color.

SS: ..... Use two special colors.

Unused: ..... Do not use colors other than those used in the profile.

5. Halftone

Specify the Halftone method.

Vi Diffusion .....Good for solid color images.

Fast Diffusion .....Selected when sharpness is required to the small letters. In the case of image having many fully painted parts, this is not suitable as it causes stripes on the image.

ILL Diffusion.....Select for version 3 device profile. device profiles. Excellent at reproducing light colors, so that suitable for images with many gradations.

6. Print Direction

Uni-direction :.....The print head prints when it moves from right to left. Print quality is better than bi-direction but the printing time is longer.

Bi-direction :.....The print head prints both when it moves from right to left and left to right. The printing time is shorter than uni-direction.

7. Fast Print

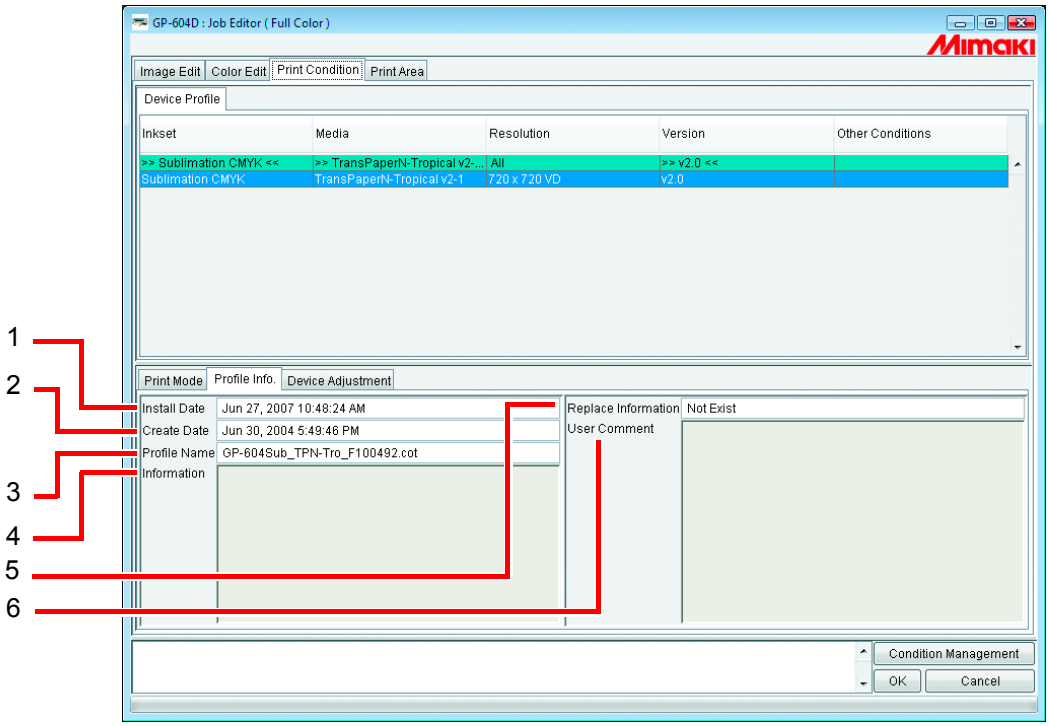
High-speed printing is available to shorten the printing time.
However inferior in quality.

8. Pause Time per Scan

Set the stopping time for each scan of the head. Set the stopping time in consideration of ink drying state.

[Profile Info] sub menu

Displays the information of a Device Profile.



1. Install Date

Displays the installation date of the selected profile.

2. Create Date

Displays the creation date of the selected profile.

3. Profile Name

Displays the file name of the selected profile.

4. Information

Displays the information of the selected profile.

5. Replace Information

Shows whether the device profile contains highly accurate color replacement information or not.

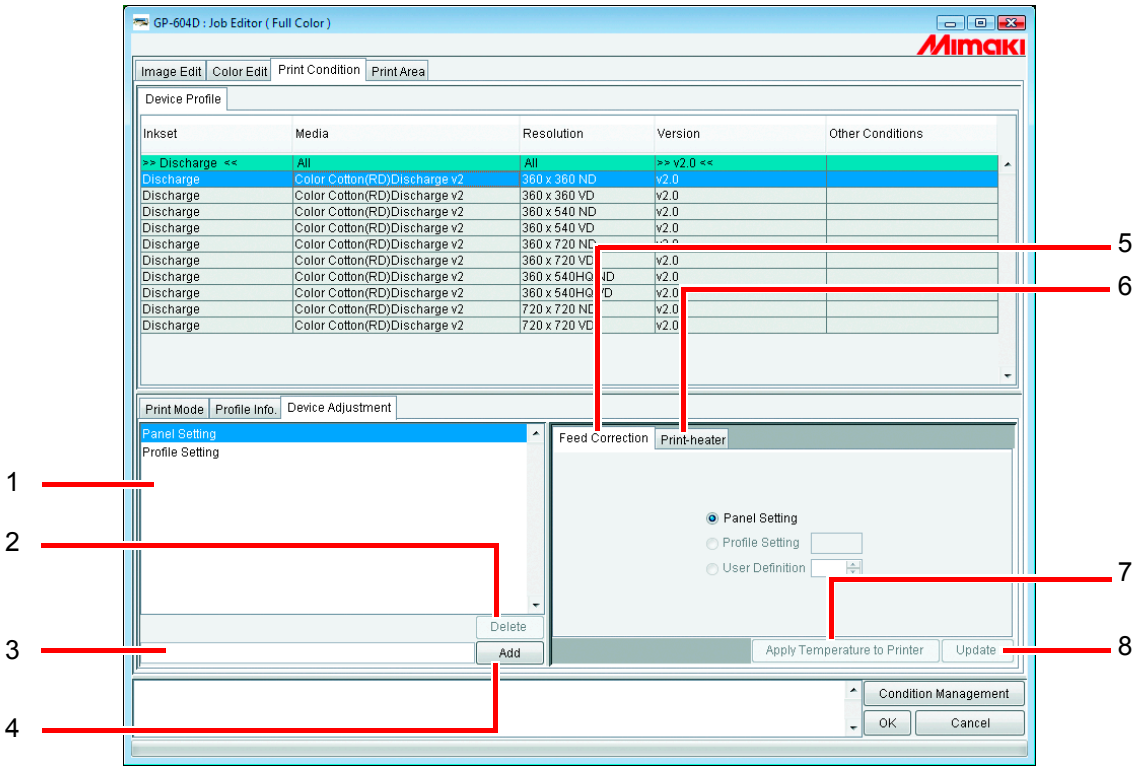
6. User Comment

Comments are writable to selected profiles.

When you select a profile, this User comment column displays the comment that you wrote on the profile.

[Device Adjustment] sub menu

Set the value of the feed adjustment and heater tempearature.



1. Device adjustment set list

Display the conditions that are set and registered in [Device adjustment] sub menu.
Device adjustment sets are values set and registered in the [Device Adjustment] sub menu, registered as files with a name added.

2. [Delete] button

Delete the selected Device adjustment set.

> NOTE! "Profile Setting" and "Panel Setting" cannot be deleted.

3. Device adjustment set input box

Enter the name of the conditions that are set in [Device adjustment] sub menu.
Advised to enter such a name that the media name and feed adjustment value can be identified for your convenience.

> NOTE! The following characters cannot be entered.
> \ / : * ? " < > |

4. [Add] button

Name the conditions that are set in [Device adjustment] sub menu and save them.

5. Feed Correction

Flat type printer performs printing while feeding the table toward the front. Adjust the feed rate of the table if the image cannot be printed with a satisfactory quality, for example, if stripes are found in the printed image.

Set which of the following feed adjustment values is to be given priority.

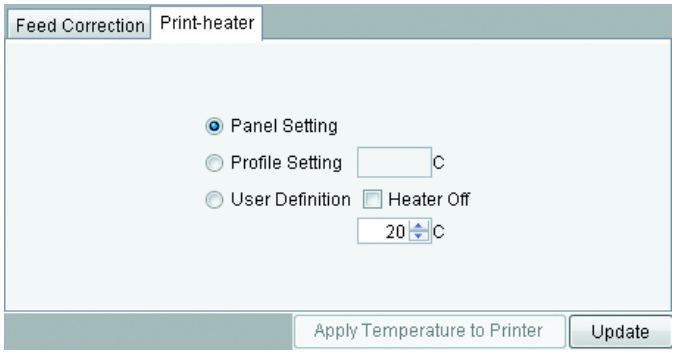
Panel setting :.....Gives priority to the value that you have set on the control panel of the printer.

Profile setting :.....Gives priority to the value registered in the profile that you have selected.

NOTE ! Some Device Profiles do not have feed correction registered. In this case, “Profile Setting” value is not shown.

User difinition :.....The printer operates according to the value that you have entered into the box.

6. Print heater (GP-604 Series)



Set the heater equipped with the printer.

Panel setting :.....Gives priority to the value that you have set on the control panel of the printer.

Profile setting :.....Gives priority to the value registered in the profile that you have selected.

NOTE ! Heater temperature may not be registered in some profiles. In the case, no temperature displayed.

User difinition :.....The printer operates according to the value that you have entered into the box.

Heater off : Check the box when not in use the heater.

Apply Temperature to Printer button :

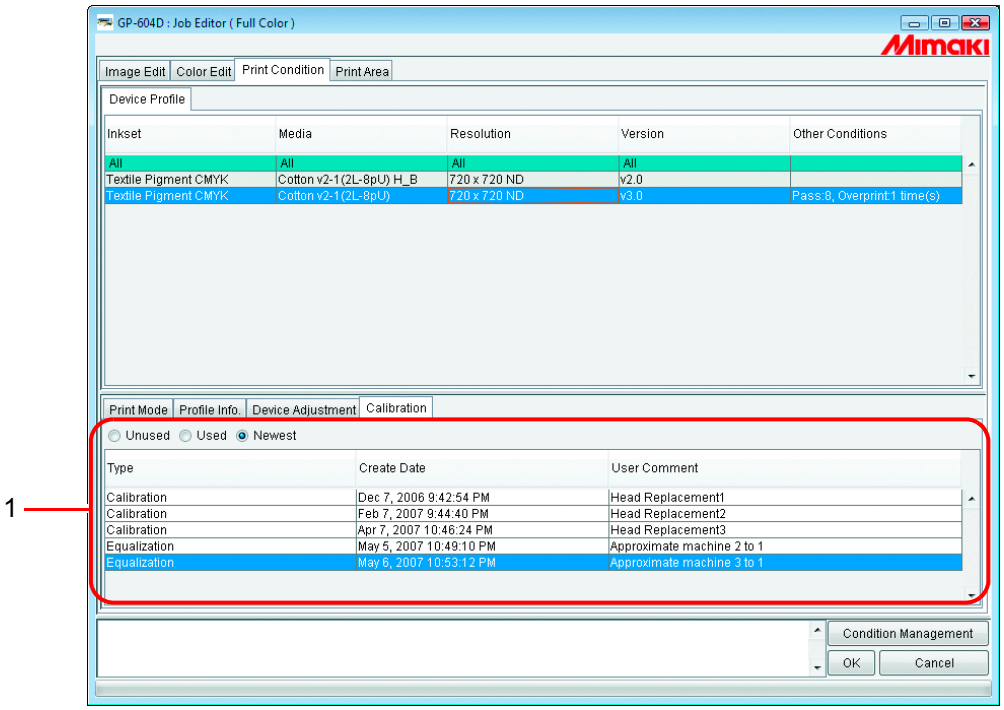
Push on the button to send the set temperature information to the printer.

Set the temperature before performing printing to cut short the running-in time for adjusting the temperature.

[Calibration] sub menu

Specifies whether calibration and/or equalization are to be used.

> [Calibration] sub menu is displayed when selecting version 3.0 device profiles which calibration information is included.
> To add calibration information to the device profiles, use the Mimaki profile creation software called "MimakiProfileMaster II".



1. Calibration

Used .....Performs RIP using calibration or equalization information selected from the list.

Unused .....Not uses calibration and/or equalization information.

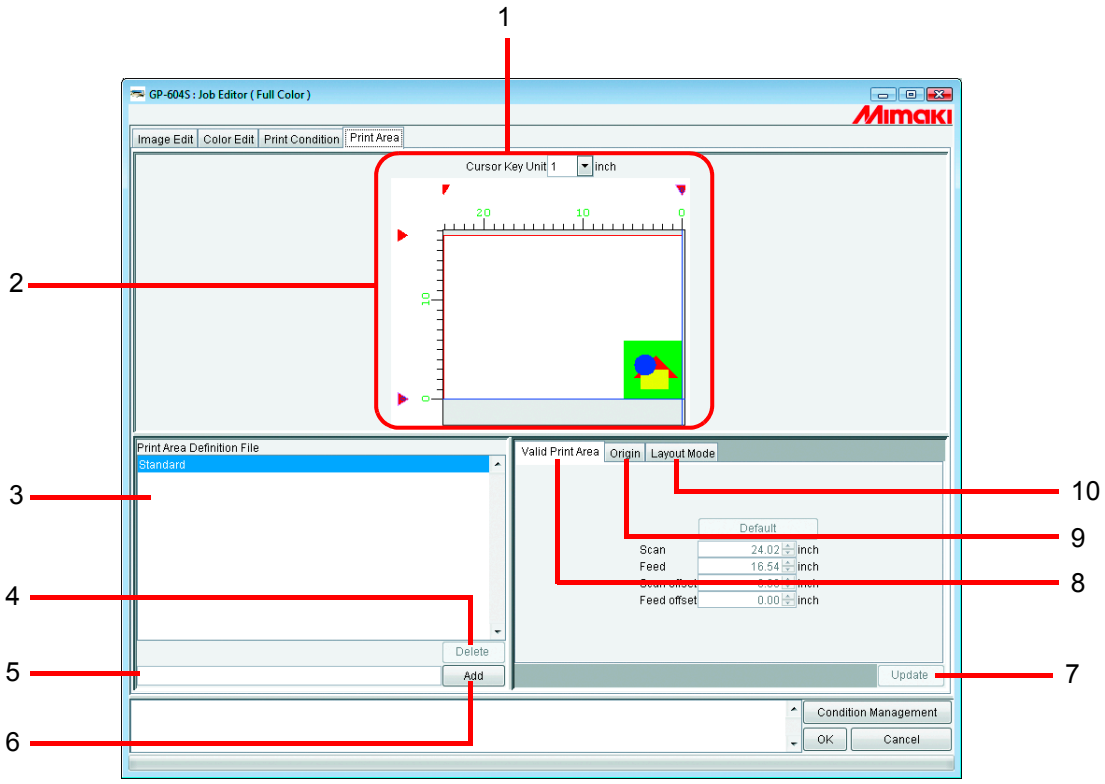
Newest .....Always performs RIP using the most recently created calibration and/or equalization information.
This is useful if calibration information is routinely added, because it eliminates the need to select calibration.

Editing the Print Area

Register the effective print area according to the media size.
The registered effective area is useful for placing the image.
It also prevent from printing off the media.

[Print Area] Menu

Settings about valid print area.



1. Step for cursor key (GP-604S, GP-1810 Series, DM Series)

Select step that will be used when moving the Origin by pressing arrow keys.(☞ P.130)

2. Print Area view

Display the values that are set in [Print Area] menu. (☞ P.123)

3. Print Area Definition File

Display registered Print Area Definition Files.
Print Area Definition File is a registered file which value is set in the sub menus such as [Valid Print Area], [Origin], and [Layout Mode] and registered with a name.
You need to select one of the Print Area Definition Files when printing.
(☞ P.135)

4. Delete **button**

Delete Print Area Definition File.(☞P.135)

However, you cannot delete the Print Area Definition File of “Standard”.

5. Print Area Definition File name input box

Display the currently selected Print Area Definition File. To add a new file, enter the name of the file.

NOTE! The following characters cannot be entered.
\ / : * ? “ < > |

6. Add **button**

Add a new Print Area Definition File or overwrite a registered Print Area Definition File with new setting conditions.(☞P.133)

7. Update **button**

Update the selecting Print Area Definition File according to the setting value in the “Print Area” menu.

8. [Valid Print Area] sub menu

Set Valid Print Area.(☞P.125)

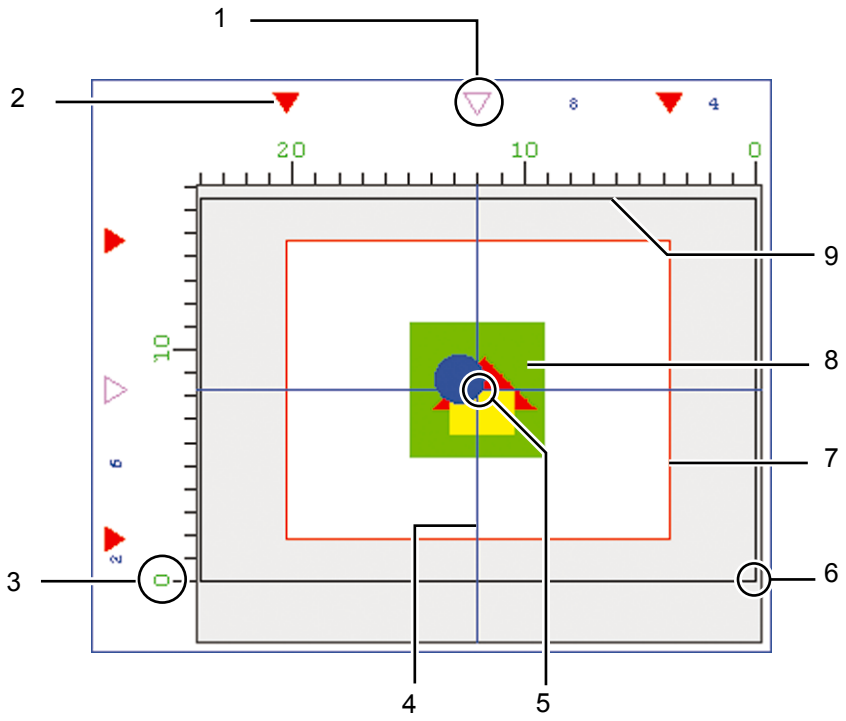
9. [Origin] sub menu (GP-604S, GP-1810 Series, DM Series)

Set Origin within Valid Print Area.(☞P.129)

10.[Layout Mode] sub menu (GP-604S, GP-1810 Series, DM Series)

Set where to place an image from Origin.(☞P.131)

Print Area view



1. Origin Guide

Drag this mark to move the Origin Guide line (blue line).

2. Edge of Valid Print Area

Four ▼ marks show the border of the Valid Print Area.

3. The Top of the largest Print area

The Top of the largest print area of printer is shown as 0.

4. Origin Guide line

Intersection of the blue vertical line is Origin of scan direction. Intersection of the blue horizontal line is Origin of feed direction.

5. Origin

For placing an image, Origin is designated as an intersection of the two blue lines.(☞P.126, P.128)

6. Printer Origin, Initial Origin

Initial origin displayed when the power of printer is turned on.(☞P.126, P.128)

This point is the initial origin of the Print Area. (☞P.126, P.128)

7. Valid Print Area

Show with red rectangle the Valid printing area that is set in [Valid Print Area] sub menu.
(☞ P.126, P.128)
You can place the print area anywhere on the table of printer by dragging the red rectangle with the mouse.

8. Location of the image

Indicates the Origin to layout the image.
Show the location of the image and origin, but does not show the real size of the image.
In addition, this does not show the location of the image precisely.
You can check the image size on the “Job Editor”.
(☞ P.21)

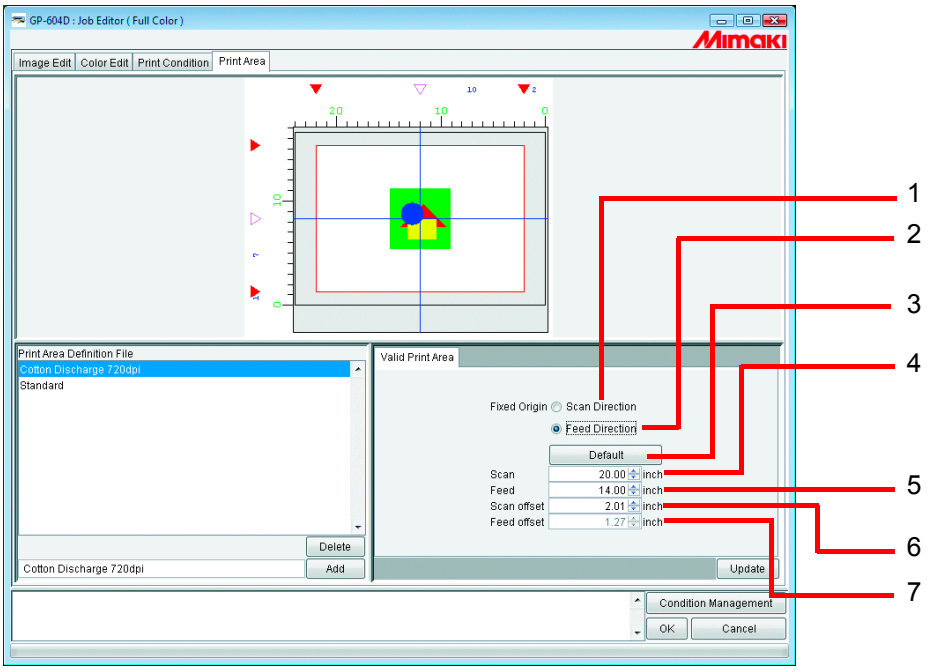
9. The largest Print area

The largest print area.

[Valid print Area] sub menu

Set an effective Print Area on the table of printer.

GP-604, GP-604D



1. Fixed Origin : Scan Directio

The effective Print Area is alterable evenly on both sides from the center of the scan direction.

2. Fixed Origin : Feed Direction

The effective Print Area is alterable evenly up and down from the center of the feed direction.

3. [Default] button :

Set the maximum Valid Print Area, and set the origin at the Initial Origin of printer.

4. Scan :

Input the width of the Valid Print Area.

5. Feed :

Input the height of the Valid Print Area.

6. Scan offset :

Input the distance from the printer origin of printer in the scan direction.

7. Feed offset :

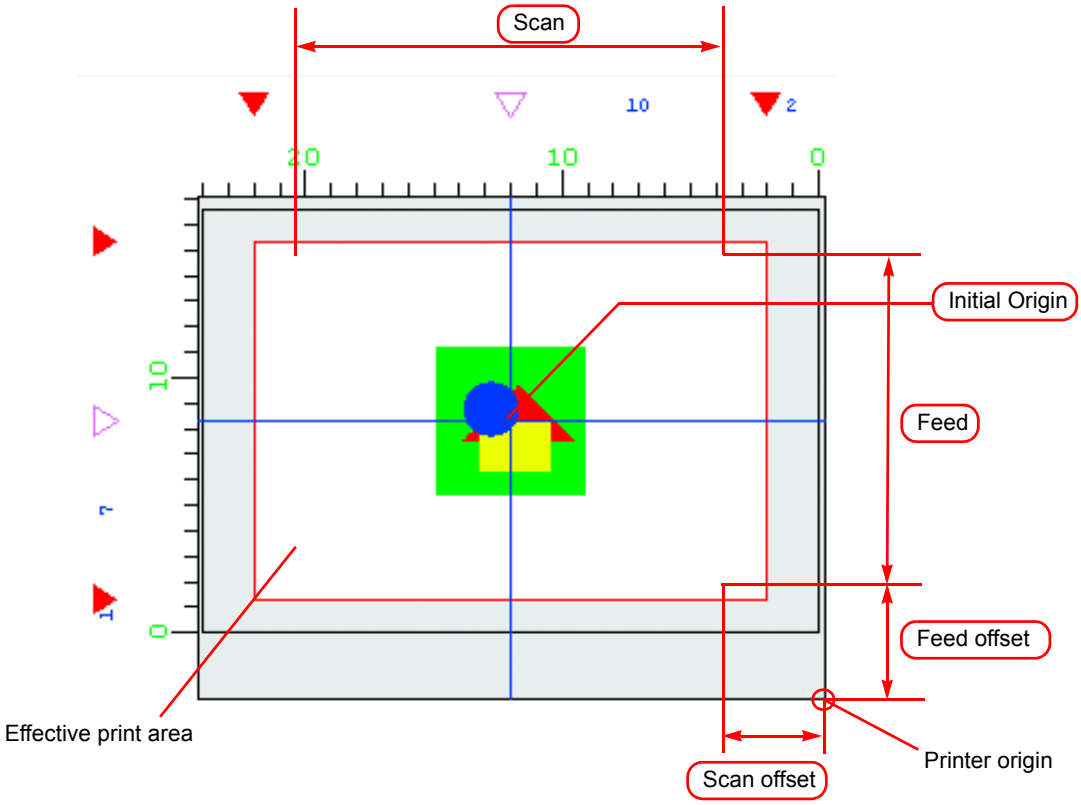
Input the distance from the printer origin of printer in the feed direction.

Setting a Valid Print Area

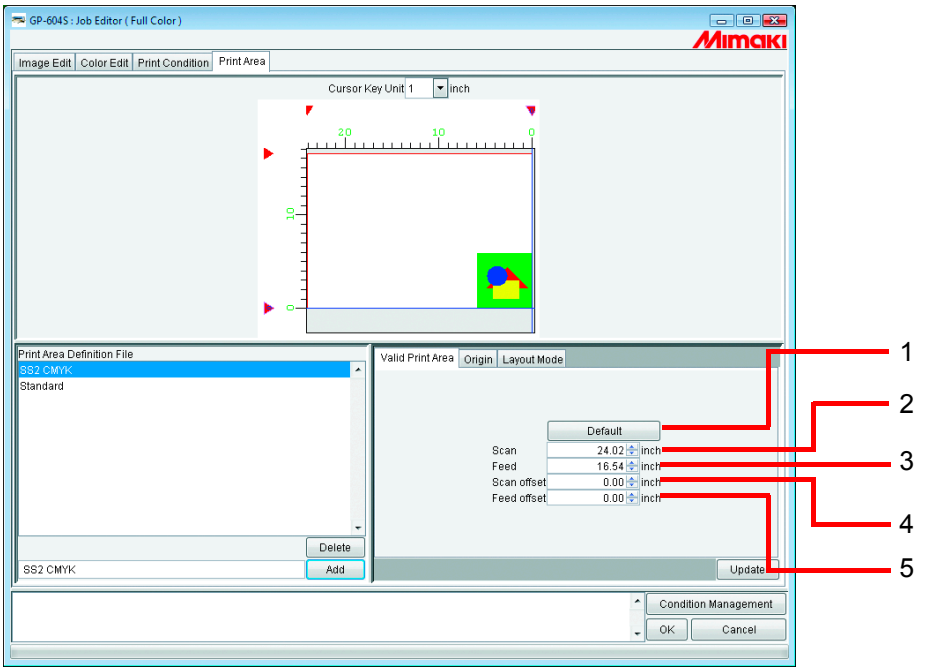
A Valid Print Area is indicated by a red rectangle.

The image outside the Valid Print Area is not printed.

- In order to change the size of effective printing area (indicated with red rectangle), enter the value in Width and Height or drag the corner of the red rectangle with the mouse.
- In order to move Valid Print Area, enter the value in “Scan offset” and “Feed offset” or drag inside the red rectangle with the mouse.



GP-604S, GP-1810 Series, DM Series



1. Default **button :**

Set the maximum Valid Printing Area, and set the origin at the Initial Origin of printer.

2. Scan :

Input the width of the Valid Printing Area.

3. Feed :

Input the height of the Valid Printing Area.

4. Scan offset :

Input the distance from the printer origin in the scan direction.

5. Feed offset :

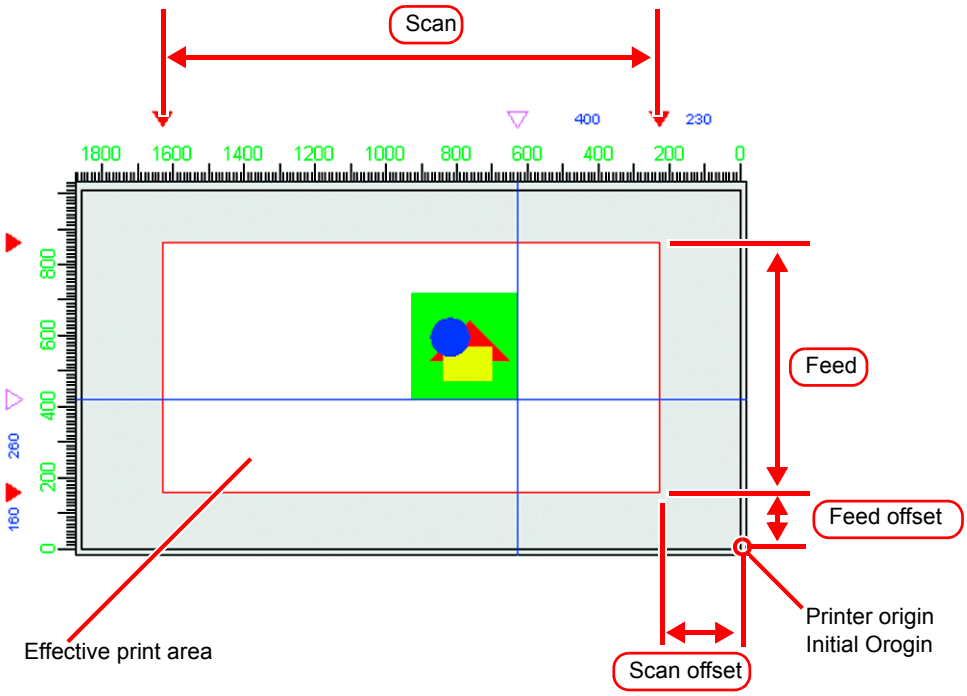
Input the distance from the printer origin in the feed direction.

Setting a Valid Print Area

A Valid Print Area is indicated by a red rectangle.

The image outside the Valid Print Area is not printed.

- In order to change the size of effective printing area (indicated with red rectangle), enter the value in Width and Height or drag the corner of the red rectangle with the mouse.
- In order to move Valid Print Area, enter the value in “Scan offset” and “Feed offset” or drag inside the red rectangle with the mouse.

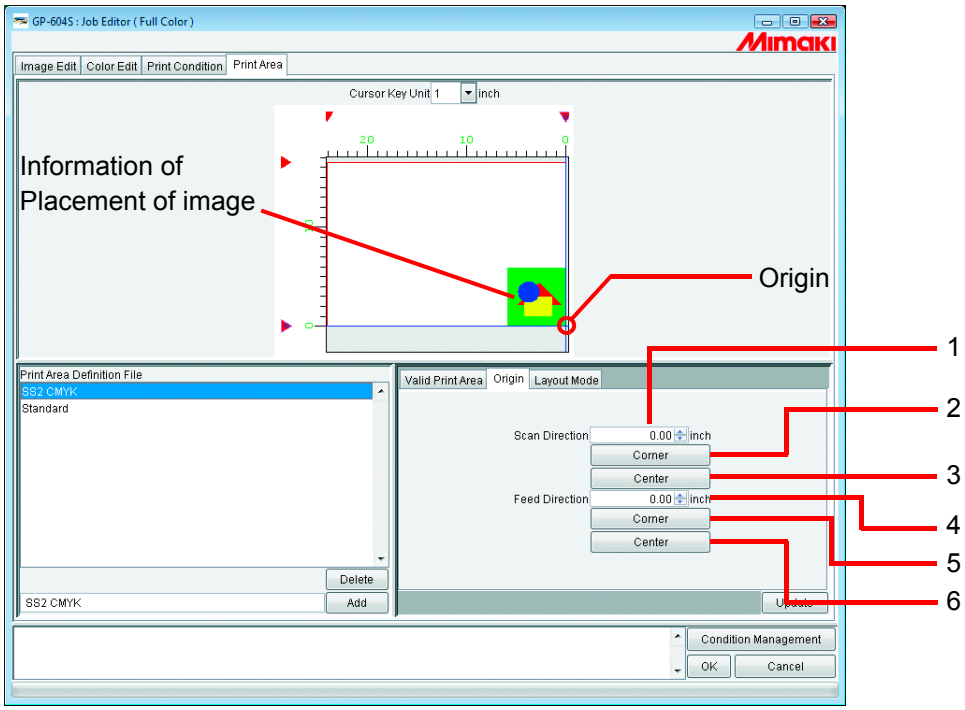


[Origin] sub menu (GP-604S, GP-1810 Series, DM Series)

Set the origin that works as a reference for locating the image.

The intersection of the two blue lines is Origin.

When setting the position of Origin, the distance in the width direction and in the feed direction decides the offset from the lower right corner of Valid print area.



1. Scan Direction :

Input the value of offset from the Valid Print Area right end in the scan direction.

2. Scan : [Corner] button

Position the origin at the right end of the Valid Print Area in the scan direction.

3. Scan : [Center] button

Position the origin at the center of the Valid Print Area in the scan direction.

4. Feed Direction :

Input the value of offset from the Valid Print Area bottom line in the feed direction.

5. Feed : [Corner] button

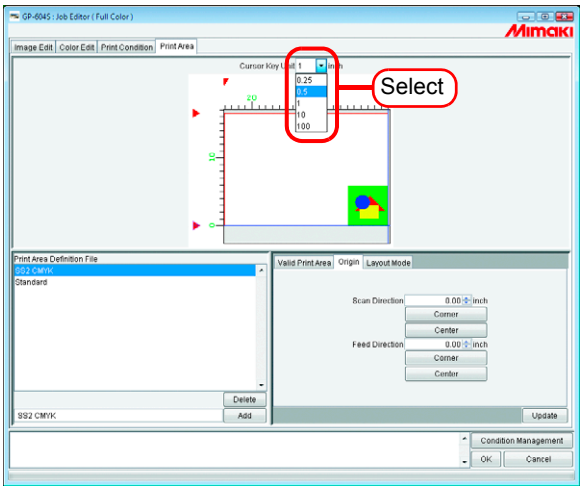
Position the origin at the bottom line of the Valid Print Area.

6. Feed: [Center] button

Position the origin at the center of the Valid Print Area in the feed direction.

Move Origin using a keyboard

1 At “Cursor key unit”, select the distance of one step of the cursor moved by pressing an arrow key on the keyboard.



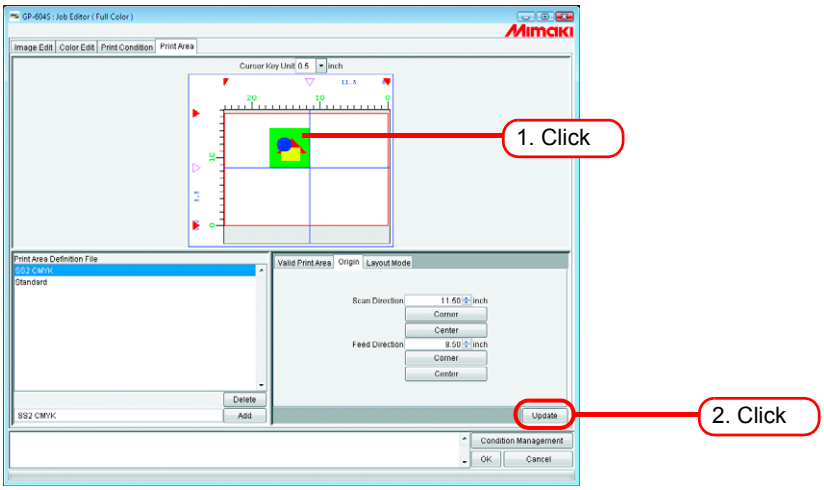
2 Click the Valid Print Area with the mouse to make the print area view active.

The frame of the print area view turns blue.

The print area view can be made active also by pressing the Tab key on the keyboard several times.

Press an arrow key on the keyboard to move the origin.

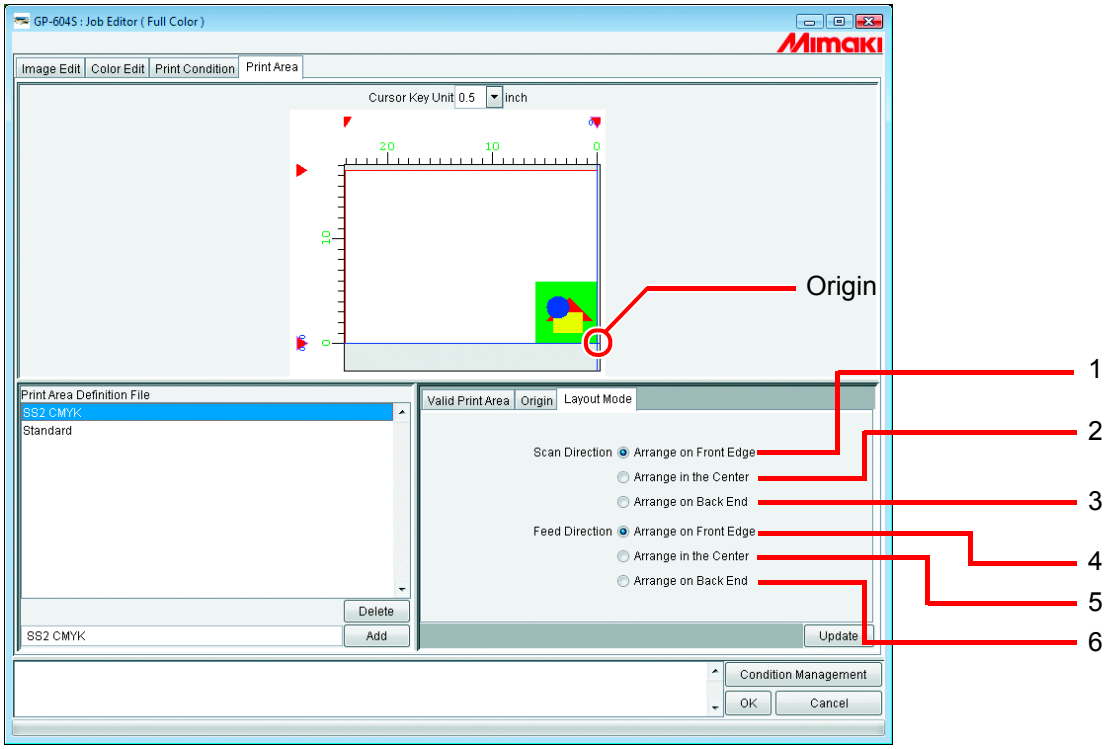
Click Update .



[Layout Mode] sub menu (GP-604S, GP-1810 Series, DM Series)

Set whether you locate the image at the center or corner of the origin area.

> **NOTE !** Set the location of the image properly in combination with the [Origin] setting. If the combination is not appropriate, the image may project from the printing area.
> The image projecting from the printing area is not printed.



1. Scan Direction : Arrange on Front Edge

Align the head end of the image in the scan direction with the origin.

2. Scan Direction : Arrange in the Center

Align the center of the image in the scan direction with the origin.

3. Scan Direction : Arrange on Back End

Align the tail end of the image in the scan direction with the origin.

4. Feed Direction : Arrange on Front Edge

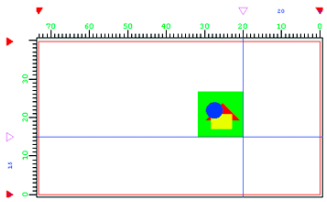
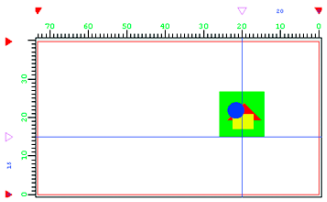
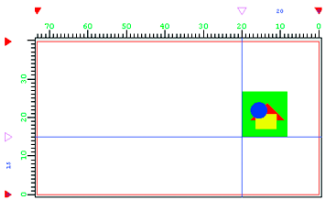
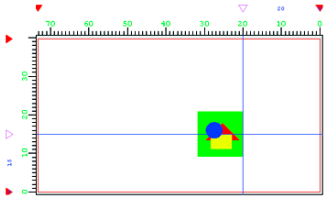
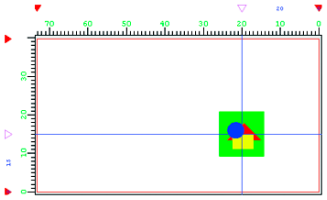
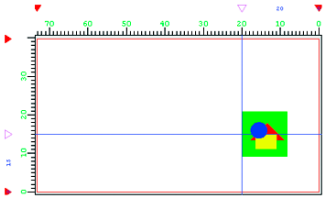
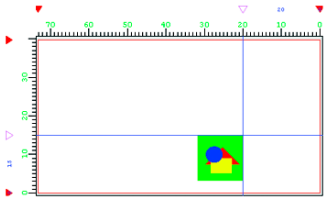
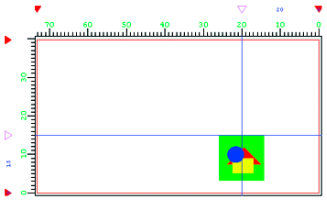
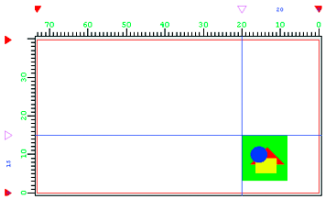
Align the head end of the image in the feed direction with the origin.

5. Feed Direction : Arrange in the Center

Align the center of the image in the feed direction with the origin.

6. Feed Direction : Arrange on Back End

Align the tail end of the image in the feed direction with the origin.

Scan direction / Feed Direction	Arrange on Front Edge	Arrange in the Center	Arrange on Back End
Arrange on Front Edge			
Arrange in the Center			
Arrange on Back End			

Registering a Print Area Definition File

Register a Print Area Definition File of “Origin” or “Layout Mode” setting on [Print Area]. For printing, be sure to select the Print Area definition file.

> NOTE ! “Standard” Print Area Definition File can not change Valid Print Area, Origin, or Offset. To change the Valid Print Area etc, create the new Print Area Definition File.

Creating the new Print Area Definition File

Print Area definition files are able to register additional.

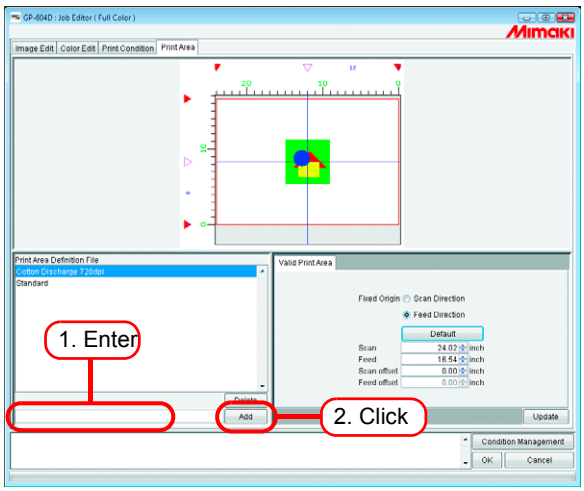
Input a registration name.

Determine the registration name so that the Valid Print Area, Origin and the Layout Mode of the image can be identified.

> NOTE ! The following characters cannot be entered.
> \ / : * ? “ < > |

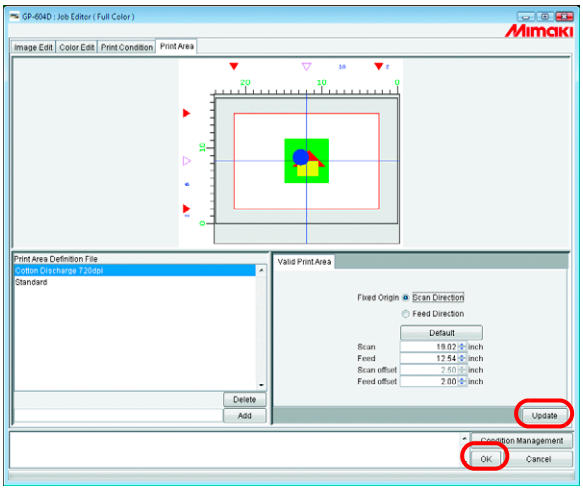
Click [Add].

A file with a new name is displayed in the Print Area Definition File list.



Updating the Print Area Definition File

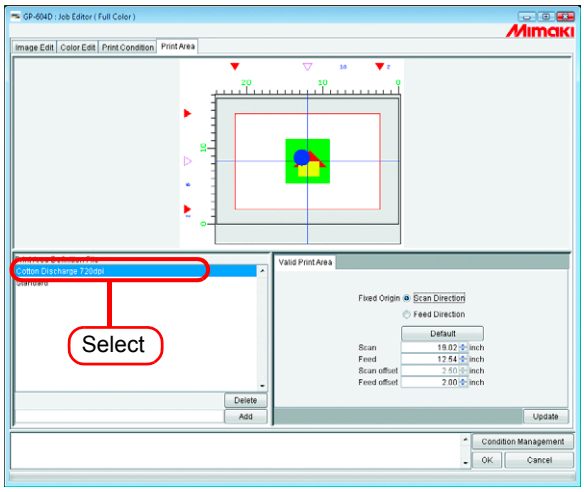
To update the Print Area Definition File, click [Update] or [OK], and exit the “Job Editor”.



Selecting a Print Area Definition File

Display information of the Print Area Definition File registered.

Click the Print Area definition file to be applied.



Deleting a Print Area Definition File

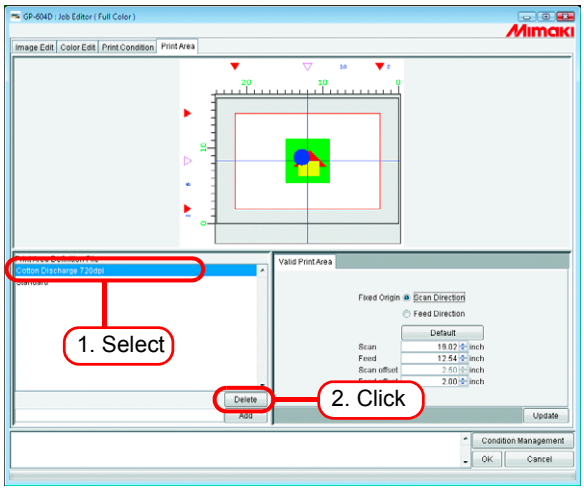
Delete a Print Area Definition File registered.

Click the Print Area Definition File to be deleted.

Click Delete .

NOTE !

- The “Standard” Print Area Definition File can not delete .
- When you have set the same Print Area Definition File for two or more jobs, remember that before deleting the Print Area Definition File.
  If you delete a Print Area Definition File for a job, an error occurs when you try to print another job for which the same Print Area Definition File has been set.
  In addition, an error log is shown in the information display area when you display this job in “Job Editor”.
  As the Print Area Definition File, “Standard” is selected automatically.



Multipage jobs

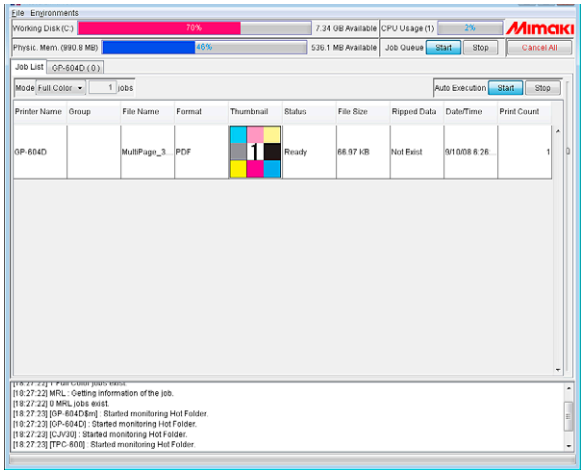
Files with multiple images in one file are called “multipage” images.

In RasterLinkPro5 TA, all pages of multipage images can be print at the same time.

NOTE ! Multipage images where the image sizes are different are not supported.

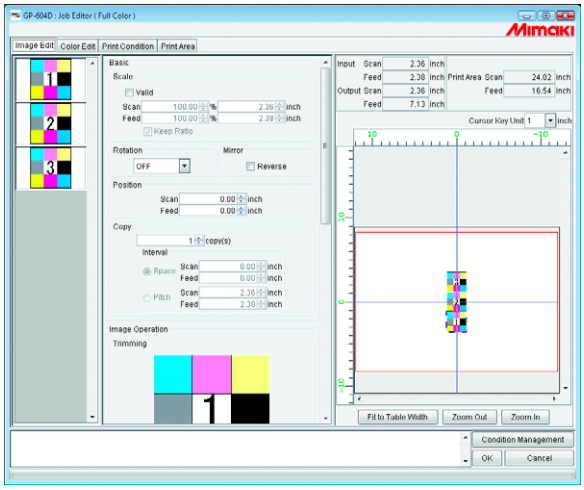
Main Window

Only images on the first page are shown in the “Thumbnails”.



“Job Editor”

All pages are shown in the “Job Editor”.



All settings in the “Job Editor” are common to all pages.

Edit jobs (Image Edit)

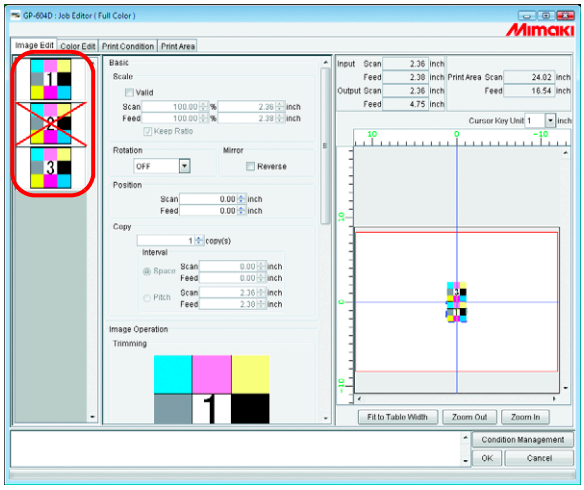
Decide the print pages

All pages of jobs for editing appear as thumbnail images.

Pages to print can be selected.

Click images in the Thumbnail List that will not be printed.

A cross mark is placed over the thumbnail, and it is removed from the preview image.



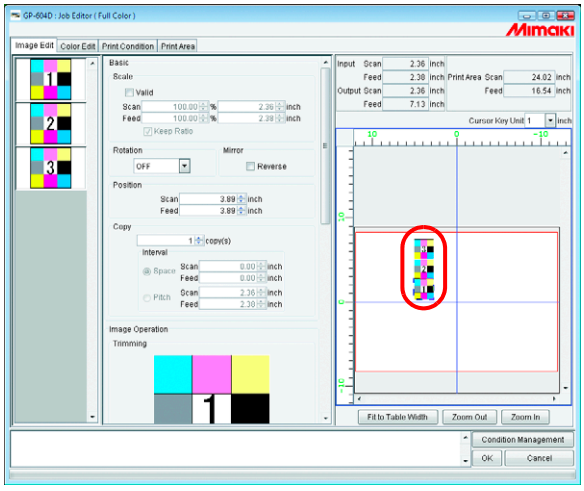
- Images marked with a cross (images not shown in the preview) are not printed.
- To print images that are set so as not to be printed, click thumbnails marked with a cross.

NOTE ! All pages cannot be marked with a cross.

Position

All pages can be moved as one object.

Drag and drop with the cursor, or enter values for Scan and Feed.

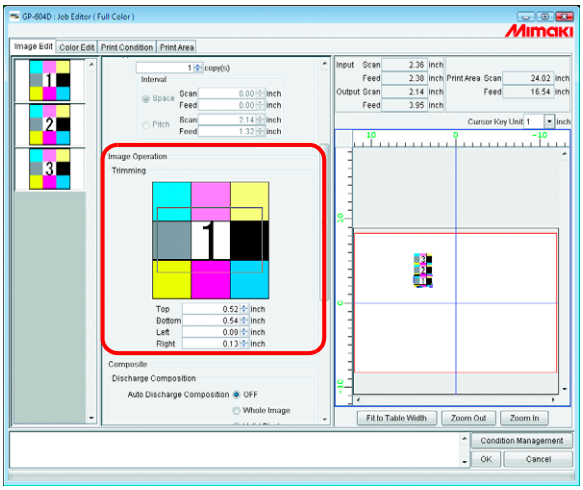


Each page cannot be arranged separately.

Trimming

Trims all pages.

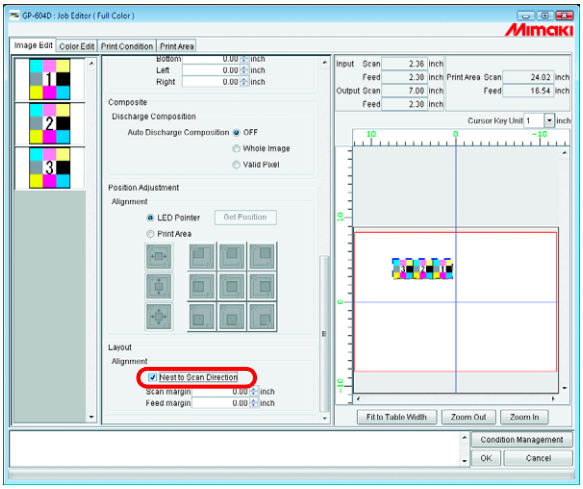
The Trimming preview shows the first page of jobs for print.



Alignment

Specifies the pitch of each page.

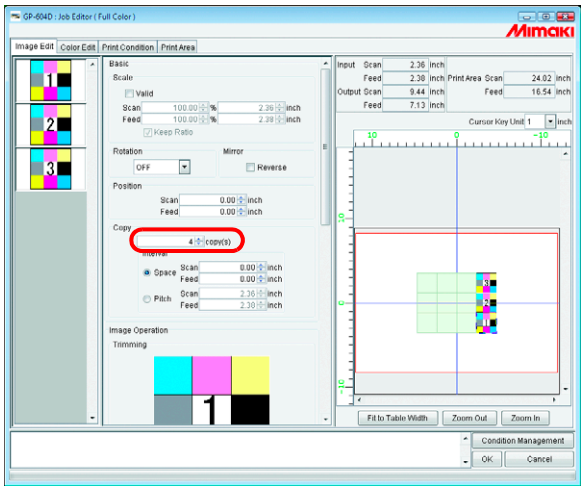
When “Nest to Scan Direction” is checked, the pages are arranged horizontally.



Copy

Copies each page.

NOTE ! “Nest to Scan Direction” and “Copy” cannot be specified at the same time.



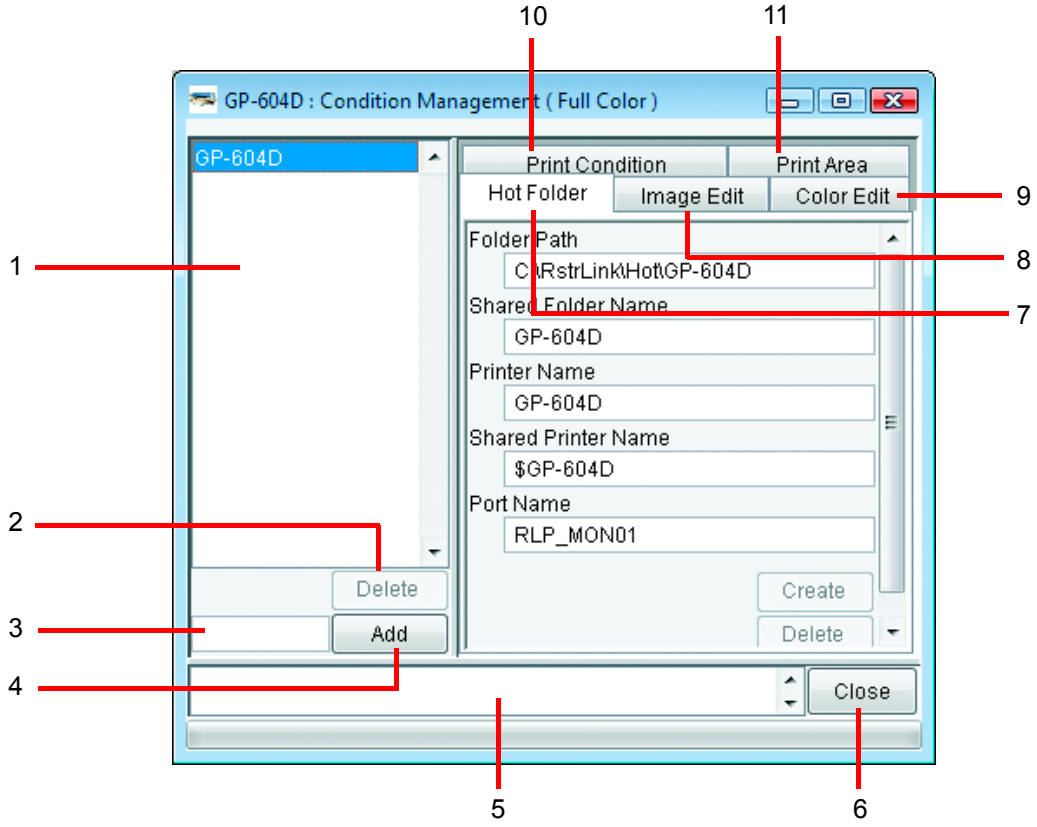
About Condition Management

This function manages various conditions (Print Condition, Image Edit, etc.) necessary for execution of a job as one “Condition set”.

The Condition Management functions are as follows:

1) Condition set applyable to a job during its editing.

2) A Hot Folder and Printer driver is able to prepared for each Condition set. The initial values of the job that has been spooled by the Hot Folder or the Printer Driver work as the setting values of the Condition set.



1. Condition List

Indicates the list of Condition set.

2. Delete

Deletes selected condition set. Condition set created by default cannot be deleted.

3. Condition name input box

When you register a new Condition set, input a new Condition set name.

> NOTE! The following characters cannot be entered.
> \ / : * ? “ < > | ! ,

4. Add

Registers a Condition set newly.

5. Information display

Indicates the operation status of Condition Management.

6. Close

Close Condition Management window.

7. [Hot Folder] Sub menu

Prepares a hot folder and Printer Driver.(☞P.142, P.152)

8. [Image Edit] Sub menu

Sets conditions for image editing.(☞P.143)

9. [Color Edit] Sub menu

Sets conditions for color editing.(☞P.144)

10. [Print Condition] Sub menu

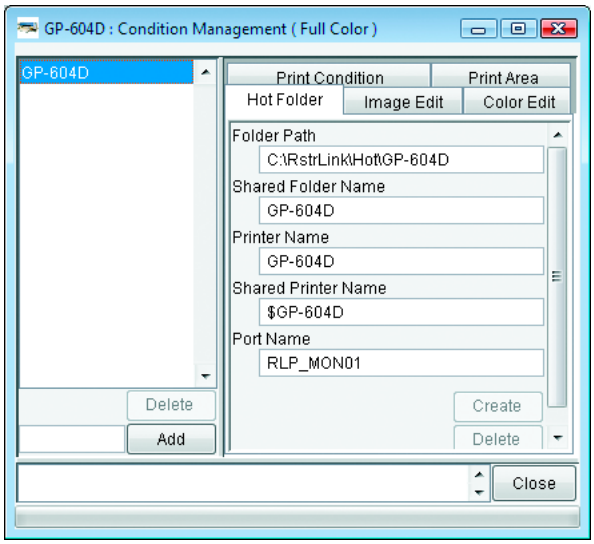
Sets print conditions.(☞P.145)

11. [Print Area] Sub menu

Set conditions for Print Area.(☞P.146)

[Hot Folder] Sub menu

Hot Folders or Printer Drivers are able to add or delete. See ☞P.152 for how to add or delete a Hot Folder or Printer driver.

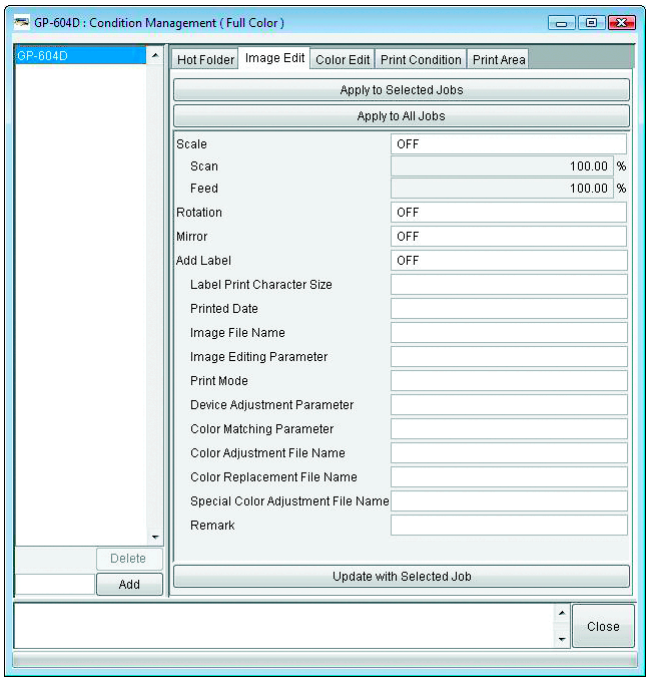


[Image Edit] Sub menu

Parameters for Image Editing settable. See ☞P.148 for how to set parameters.

The parameters that can be set are as follows:

Scale, Rotation, Mirror, Print information label

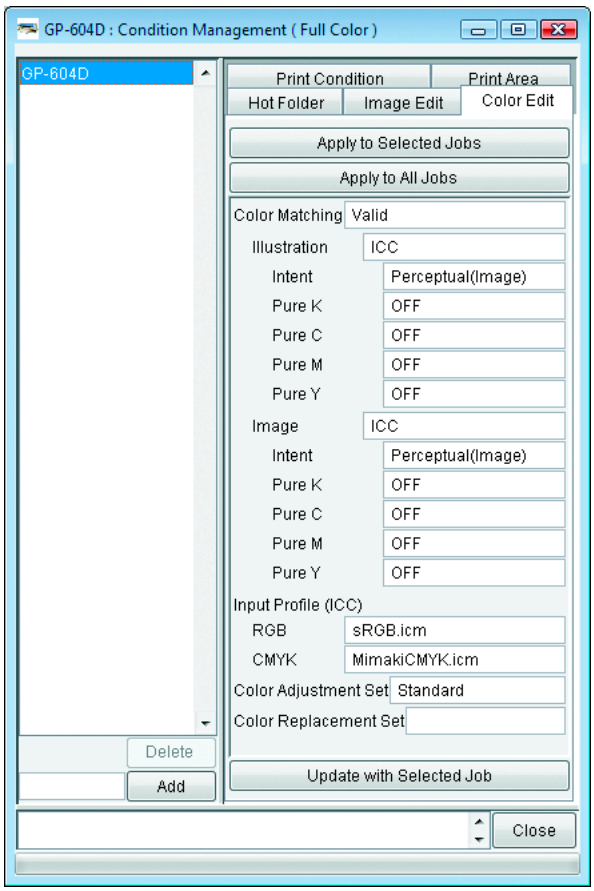


[Color Edit] Sub menu

Parameters for Color Editing settable. See ☞P.148 for how to set parameters.

The parameters that can be set are as follows.

All parameters for Color matching, Color Adjustment set, Color Replacement set, Special Color Adjustment

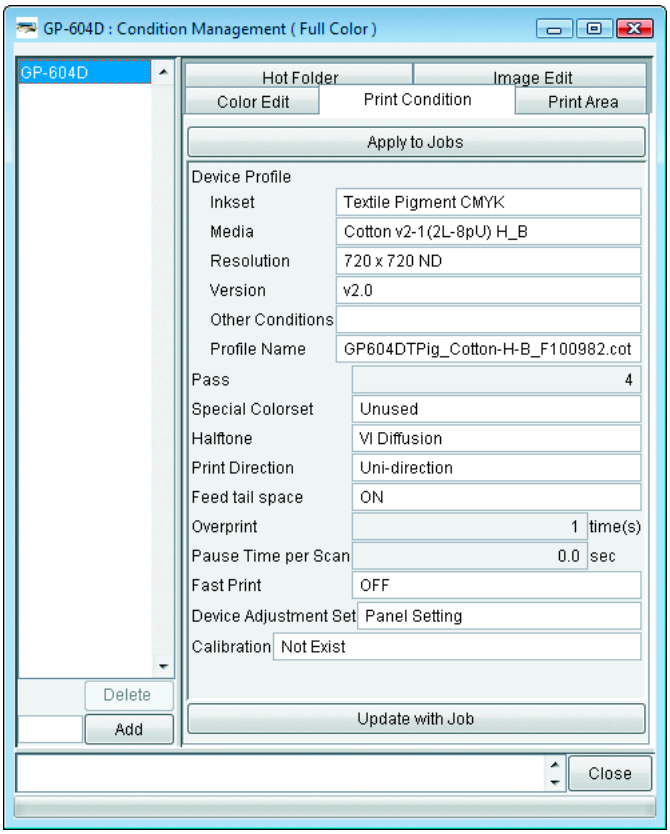


[Print Condition] Sub menu

Parameters for Print Condition settable. See ☞P.148 for how to set parameters.

The parameters that can be set are as follows:

Device Profile, Print Mode, Device Adjustmennt Set

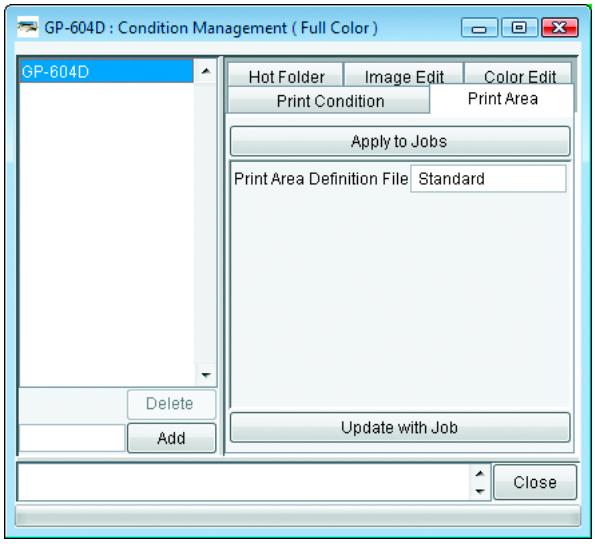


[Print Area] Sub menu

Parameters for Print Area settable. See ☞P.148 for how to set parameters.

The parameters that can be set are as follows:

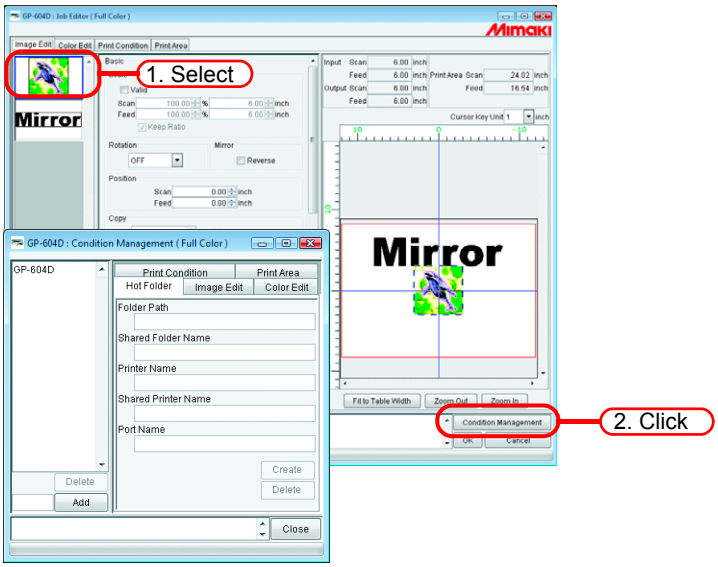
Print Area definition file



Displaying the Condition Management Window

Select one job for which Condition is to be set, and click Condition Management .

Open the “Condition Management” window.



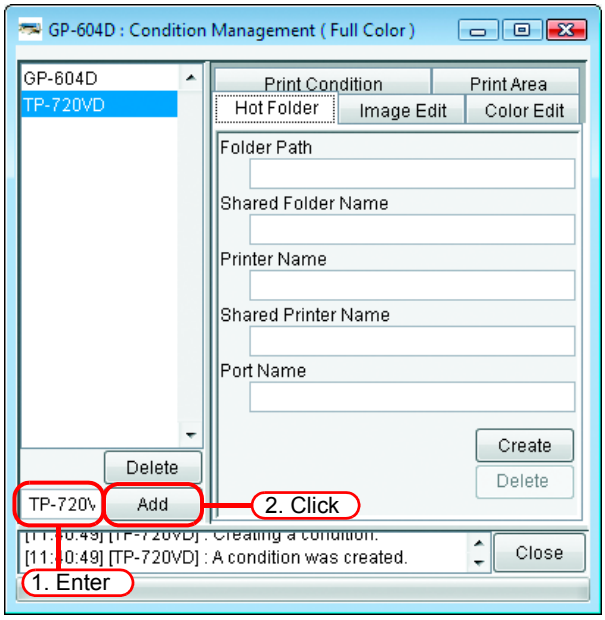
Creating a New Condition Set

Enter the Condition set name.

NOTE ! The following characters cannot be entered.
\ / : * ? “ < > | ! ,

Click Add .

Add a new condition set at the list.



When you edit the registered condition set and register it under the different set name, select the set to edit and click Add after changing the set name.

Changing Setting Values of Condition Set

Setting values of various conditions (Image Edit, Color Edit, Print Condition and Print Area) changeable.

Values are acquired from the job that is currently edited in “Job Editor”.

The settings of Image Edit are changed independently, and Color Edit and Print Condition are changed as a set.

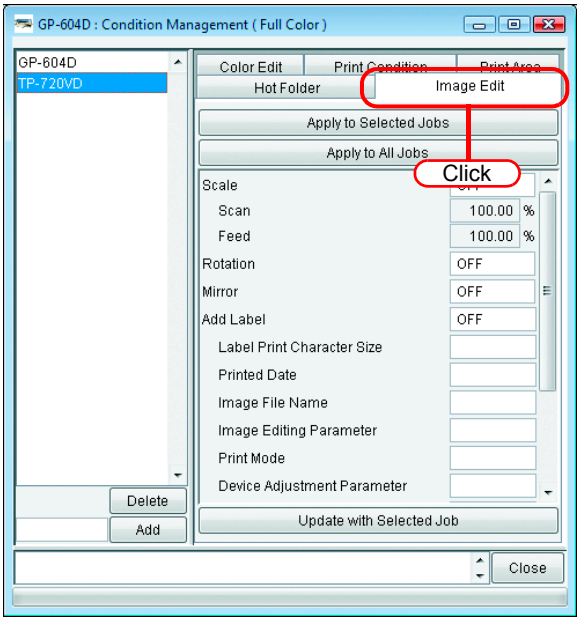
1 Open the “Condition Management” window.

Open the sub menu of conditions to be changed.

Open [Image Edit] here.

“Job Editor” also displays [Image Edit].

The menu of “Job Editor” is switched to meet the menu shown in “Condition Management”.

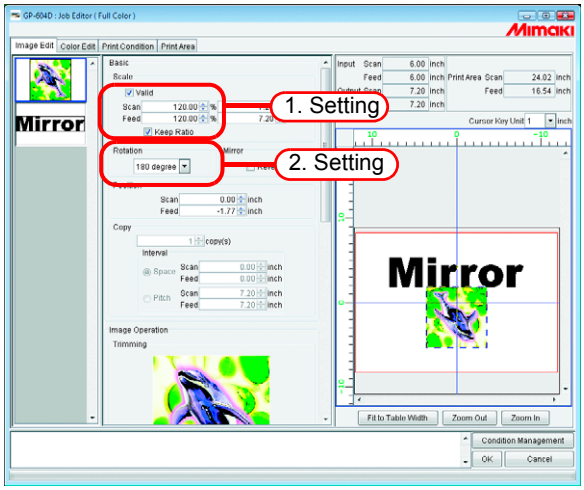


2 In “Job Editor”, perform setting of parameters.

The example shows a case where parameters are set as follows:

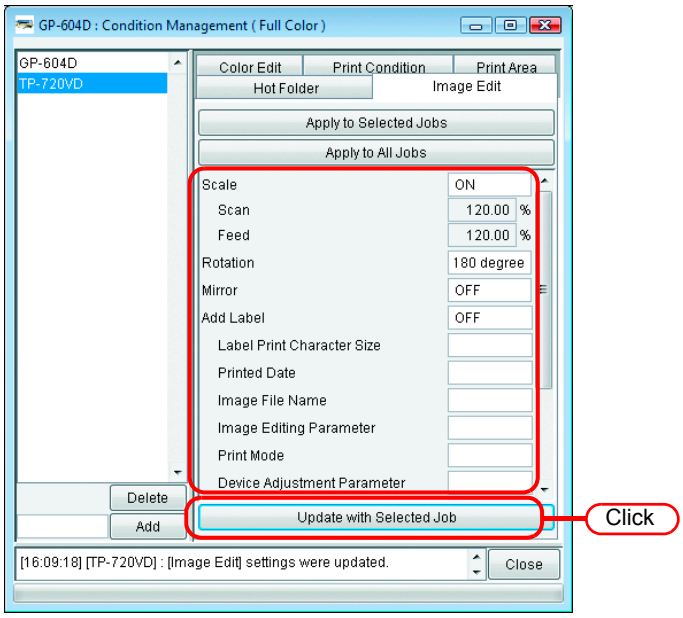
Scale: 120%

Rotation: 180 degree



3 Click Update with Selected Job in the Condition Management window.

The parameters that you have set in “Job Editor” are acquired and indicated.



Applying Conditions to the Job

Apply the conditions that you have set in Condition Management to the job.

The settings of Image Edit and Print Area are changed independently, however Color Edit and Print Condition are changed as a set.

The Image Edit conditions are applied to one or more jobs selected in the “Image Edit” Thumbnail List, or to all jobs.

The conditions of Color Edit are applied to only the job selected in the Thumbnail list of “Color Edit” or to all jobs.

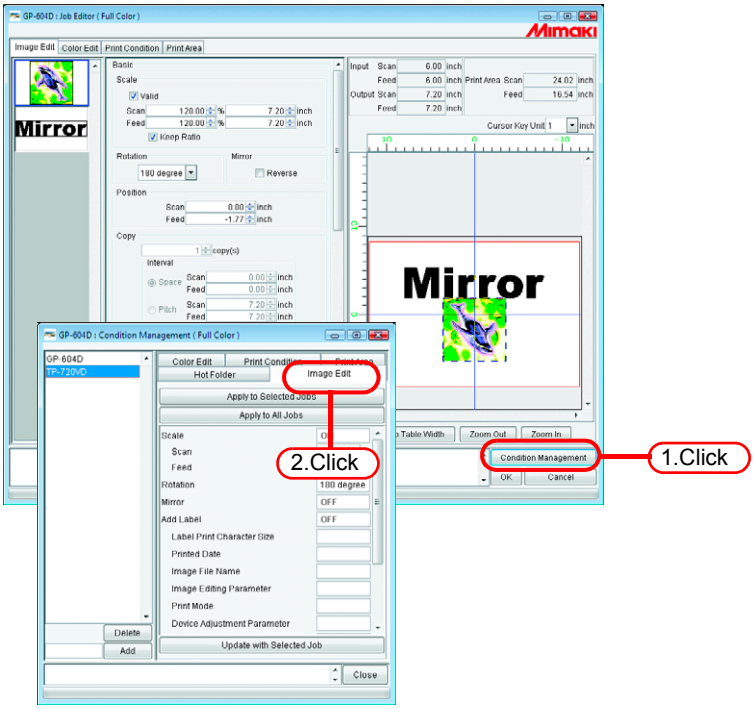
The conditions of Print Condition and Print Area are applied to all the grouped jobs.

1 Open “Condition Management” window.

Open the sub menu of conditions to be changed.

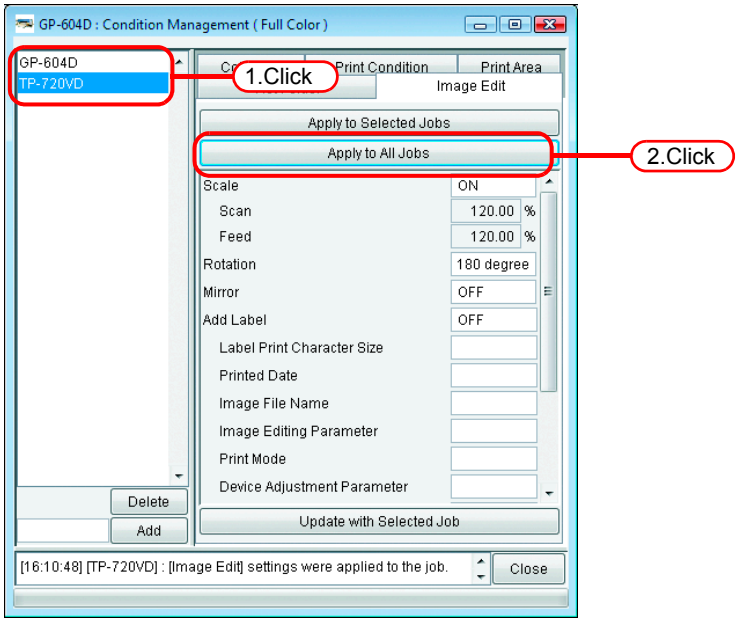
Open [Image Edit] here.

“Job Editor” also displays [Image Edit].



The menu of “Job Editor” is switched to meet the menu shown in “Condition Management”.

2 Select a menu for which conditions are to be applied.
Click apply button.
Click Apply to All Jobs here.



3 The conditions are applied to all the jobs in “Job Editor”.

[Hot Folder] Sub menu

You can prepare Hot Folders and Printer driver.

Prepare one Hot Folder and Printer driver for one Condition set.

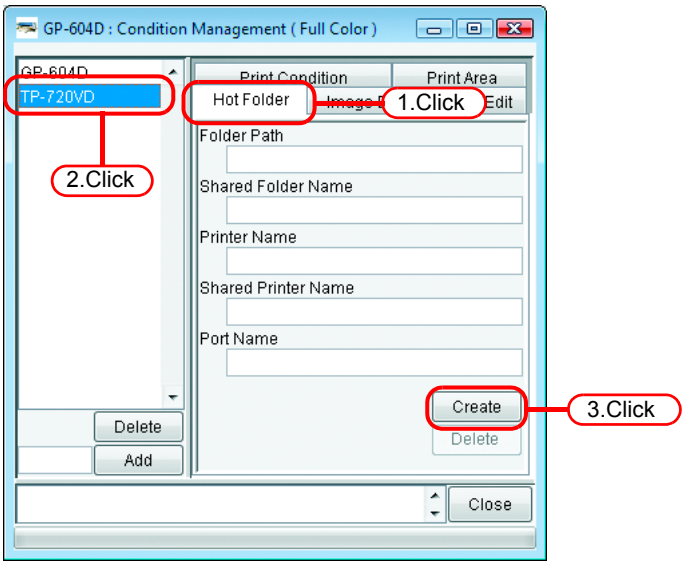
The various conditions of the job that you have spooled using the prepared Hot Folder or Printer driver reflect the conditions that have been set in “Condition Management”.

Preparing a Hot Folder and Printer driver

1 Open the “Condition management” window and click “Hot Folder” tab.
Select the Condition set where a Hot Folder is to be prepared.
Click Create .

NOTE !

- Do not close RasterLinkPro5 TA forcibly during preparation of a Hot Folder or Printer driver.
- When you access to Hot Folder and shared printer from the Windows Me or earlier, make the condition set name up to 11 one-byte characters.



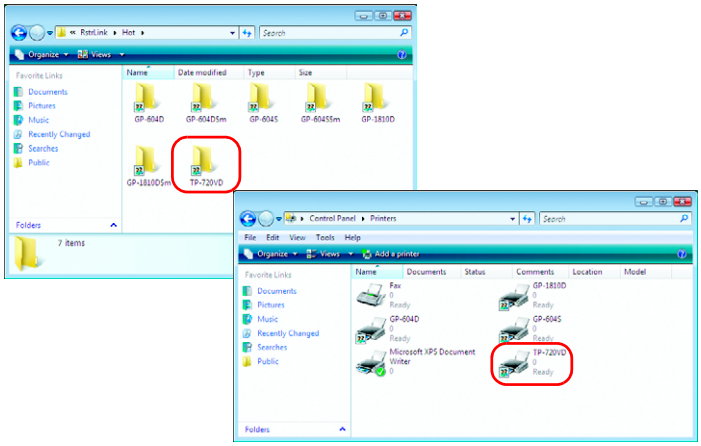
NOTE !

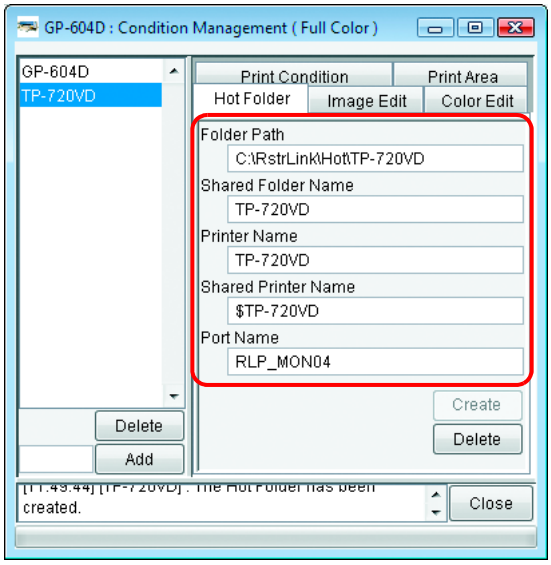
If PC MACLAN is installed on the RasterLinkPro5 TA PC, the [PC MACLAN file server warning] screen may appear while creating the Hot Folder. Click OK to stop the PC MACLAN file server. The PC is not shut down.

2 A Hot Folder and Printer driver are prepared.
Information of the Hot Folder and Printer driver is displayed.

NOTE !

- Never perform any of the following operations with a Hot Folder that has been prepared in RasterLinkPro5 TA.
  Otherwise, it will become impossible to uninstall.
  Change of the folder name, change of the shared name, cancellation of sharing, deletion of the Hot Folder
- Never perform any of the following operations with a Printer driver that has been prepared in RasterLinkPro5 TA.
  Otherwise, it will become impossible to uninstall.
  Change of the name, change of the shared name, cancellation of sharing, deletion of the Printer driver.





Automatic PC MACLAN setting

If PC MACLAN is installed on the RasterLinkPro5 TA PC, PC MACLAN is set automatically when the Hot Folder and Printer driver are created.

In this case, the following names are given automatically.

PC MACLAN file server

File server name: RasterLinkPro5 TA PC host name

Shared folder name: Condition set name

PC MACLAN print server

Spooler name: Condition set name_RasterLinkPro5 TA PC host name

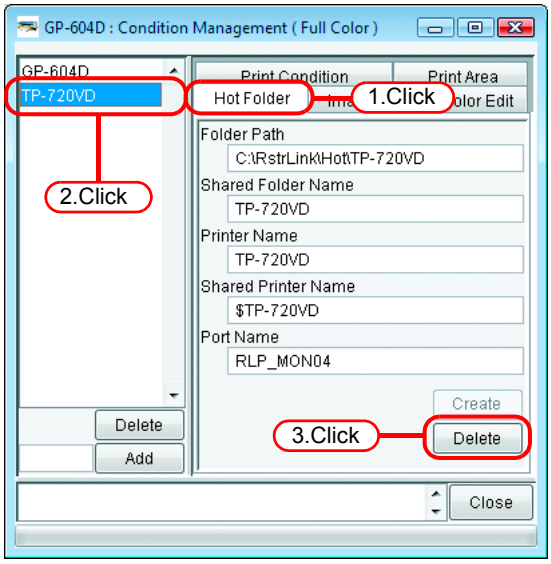
NOTE !

- The maximum length of the PC MACLAN print server spooler name allowed in the specification is 27 bytes.
  If the Condition set name or host name is long, it is cut after the 28th byte.
  When outputting from the Printer driver from Macintosh, it is recommended not to use a long condition set name.
- When creating a Hot Folder and Printer driver, RasterLinkPro5 TA restarts PC MACLAN. In this case, since the connection with the Macintosh client is cut, problems occur such as files that cannot be deleted remaining in the Hot Folder and so on.
  Therefore when creating a Hot Folder and Printer driver, unmount the Hot Folder mounted with Macintosh first.

Deleting a Hot folder and Printer driver

1 Open “Condition Management” window.
Click “Hot Folder” tab.
Select the Condition management set where a Hot Folder is to be deleted.
Click Delete .

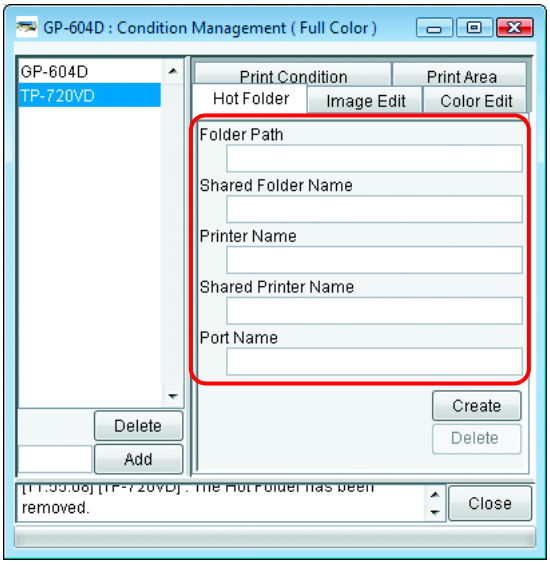
NOTE ! Do not close RasterLinkPro5 TA forcibly during deletion of a hot folder or printer driver.



NOTE ! If PC MACLAN is installed on the RasterLinkPro5 TA PC, the [PC MACLAN file server warning] screen may appear while deleting the Hot Folder. Click OK to stop the PC MACLAN file server. The PC is not shut down.

2 A Hot Folder and Printer driver are deleted.

NOTE ! When you mount the Hot Folder of RasterLinkPro5 TA with AppleShare from Macintosh, you could, in some cases, not be able to delete Hot Folders.
In this case, unmount the shared volume mounted by Macintosh, and then click Delete.



Canceling PC MACLAN settings

If PC MACLAN is installed on the RasterLinkPro5 TA PC, PC MACLAN settings are automatically canceled when the Hot Folder and Printer driver are deleted.

NOTE !

- When deleting a Hot Folder and Printer driver, RasterLinkPro5 TA restarts PC MACLAN. In this case, since the connection with the Macintosh client is cut, problems occur such as files that cannot be deleted remaining in the Hot Folder and so on.
  Therefore when deleting a Hot Folder and Printer driver, unmount the Hot Folder mounted with Macintosh first.
- The PC MACLAN file server folder information is not removed automatically. Remove the folder information in accordance with the chapter on using the File Server in the PC MACLAN User's Guide.

Printer Status Display Function

On the “Printer Status”, various printer status are shown, and specify the own setting.

The contents displayed vary with the output port.

“Printer Status” is shown in the Execution Status Screen of each printer.

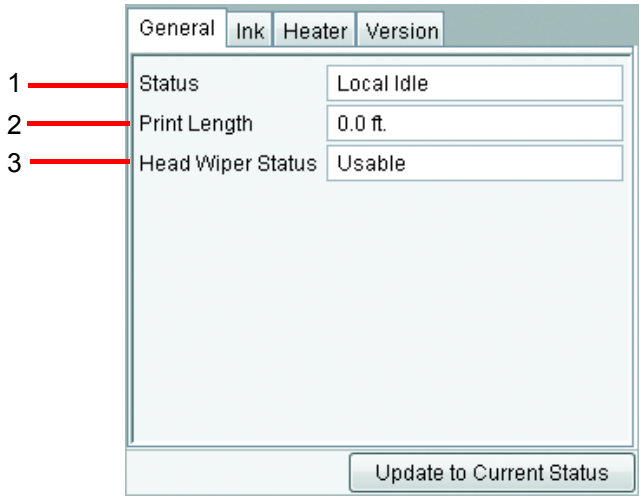
NOTE!

- Printer status is not updated automatically. If you want to check the latest status, click Update to Current Status.
- If you click Update to Current Status during printing, it takes time to update the status.

When the Output Port is IEEE1394

“General” information

Displays the present status of the printer.



1. Status

Displays the present status of the printer.

Status	Conditions
Not ready	Initialization is active to start up the printer. Do not run the printer for outputting.
Cover open	The front cover of the printer is raised. Close the front cover.
Local idle	The printer is in local condition. The printing is not available. Set the printer remote mode for outputting.
Local active	The printer is running for cleaning or test printing. The printing is not available. Set the printer remote mode for outputting.
Remote idle	The printer is in remote condition. You may start printing.
Remote active	Now printing.

2. Print Length

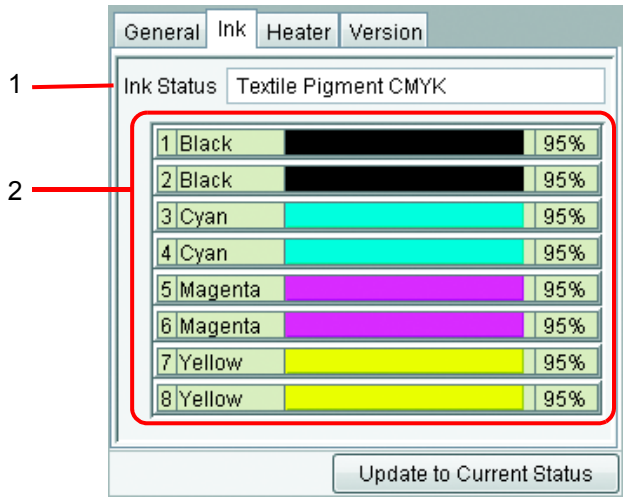
Indicates the actually printed length while outputting.

3. Head Wiper Status

Indicates whether Head Wiper is enabled or disabled.

“Ink” information

The ink information that has been set in the printer is displayed.



NOTE ! If the ink cartridge is not inserted into to printer, ink information may not be displayed correctly. To display ink information, insert the ink cartridge into the printer correctly.

1. Ink Status

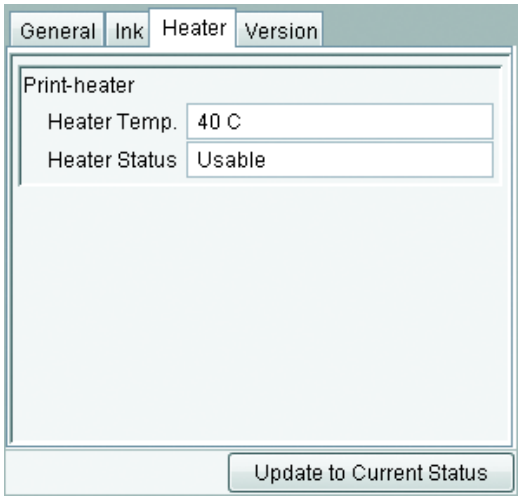
Display the ink set name.

2. Ink color and remaining level for each slot

Display the ink color and remaining level for each slot.

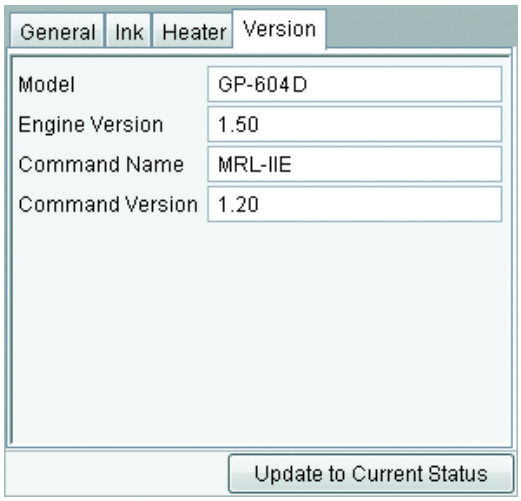
“Heater” information (GP-604 Series)

The heater information that has been load in the printer is displayed.



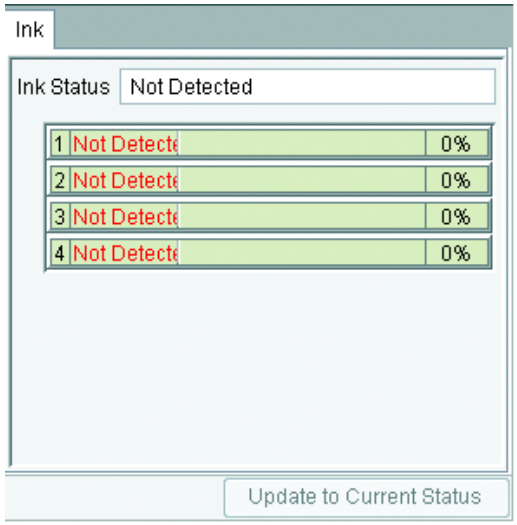
“Version” information

The version information of the printer is displayed.



When the Output Port is without IEEE1394

“Ink” information



Appendix

The color acquisition function and supported scanners

In RasterLinkPro5 TA, it is possible to simulate and print original color that is scanned from document such as comprehensive layouts (color acquisition function).
This document explains the items to set in the scanner driver when using the color acquisition function. According to your scanner model, follow the scanner driver setup procedure on this manual.

Supported scanners

The following scanners are supported with the RasterLinkPro5 TA color acquisition function.

EPSON Perfection 4990 Photo

NOTE !

- Refer to the manual packaged with the scanner for how to operate the scannner and scanner driver.
- When using color acquisition function of RasterLinkPro5 TA use the setting value described in this manual.
  It has an influence on the accuracy of the acquired color.
- When using a scanner for functions other than color acquisition function of RasterLinkPro5 TA, the default setting value of the scanner driver is changed.
  When using a scanner for color acquisition function of RasterLinkPro5 TA, check the setting value.

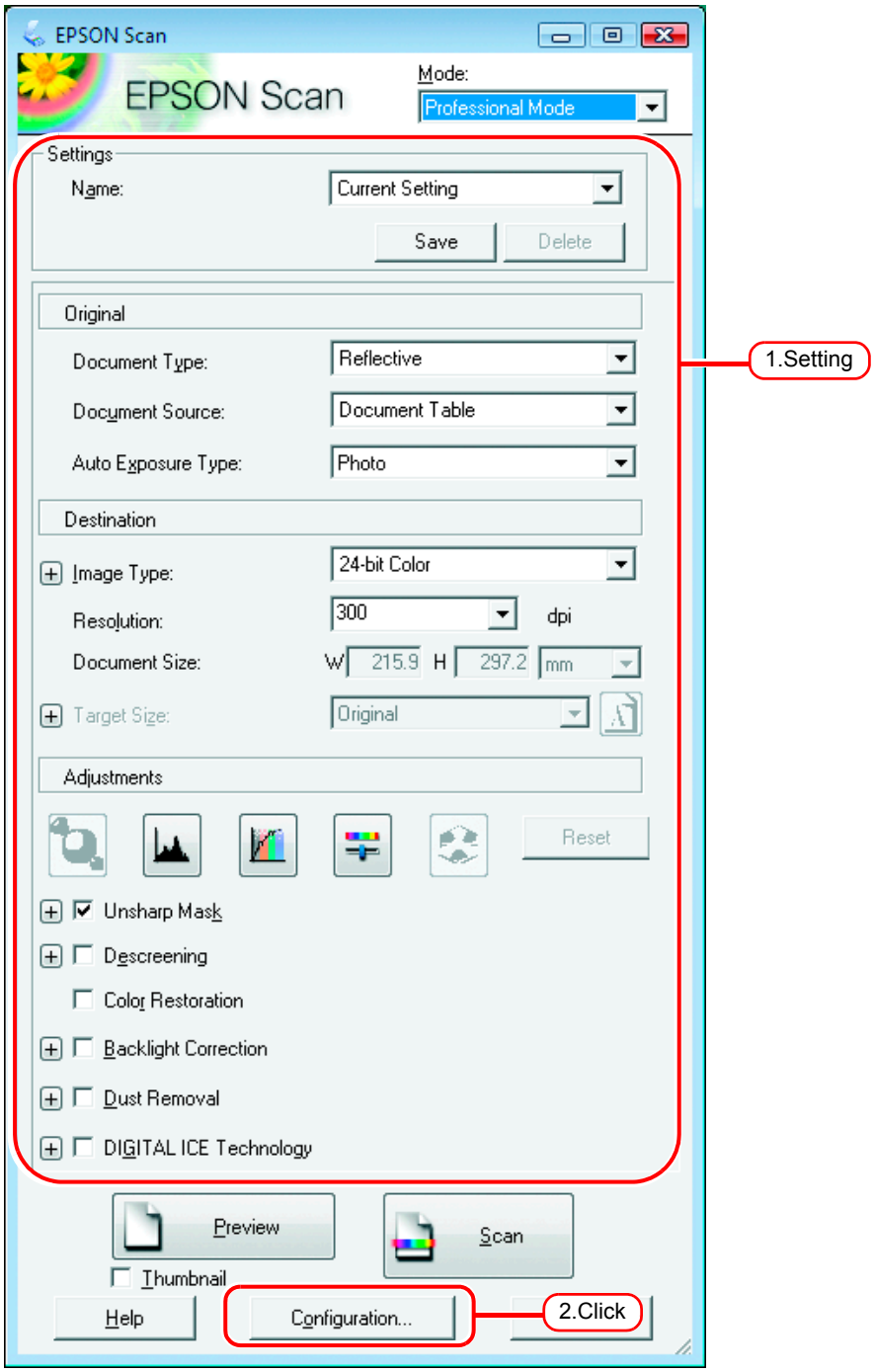
Scanner driver settings

In the RasterLinkPro5 TA color acquisition function, select the type of scanner, and click Start scanning . The scanner driver screen appears.

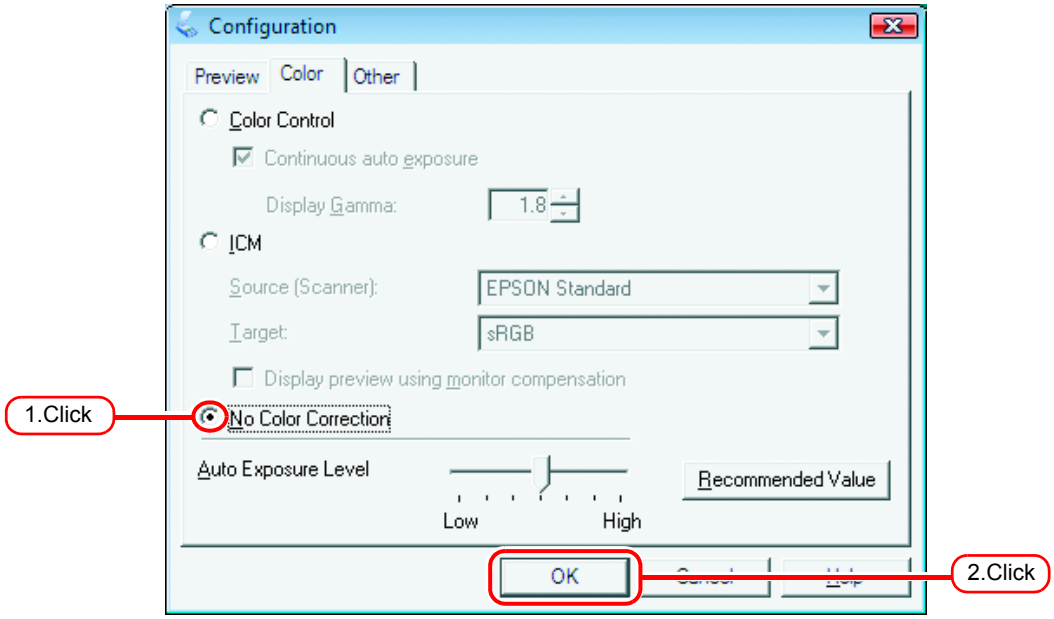
Scan the original document with the settings explained below.

With the EPSON Perfection 4990 Photo

1 Soon after the scanner starts, the scanner driver screen appears. Make the following settings and click Configuration... .

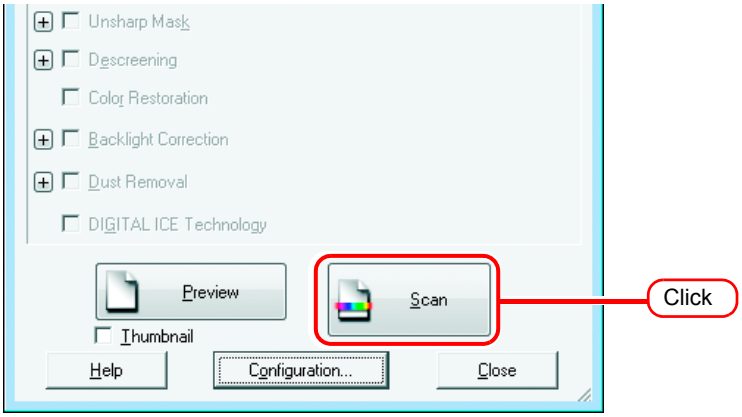


2 On the [Configuration] screen, select [No Color Correction] in the [Color] menu, and click OK .

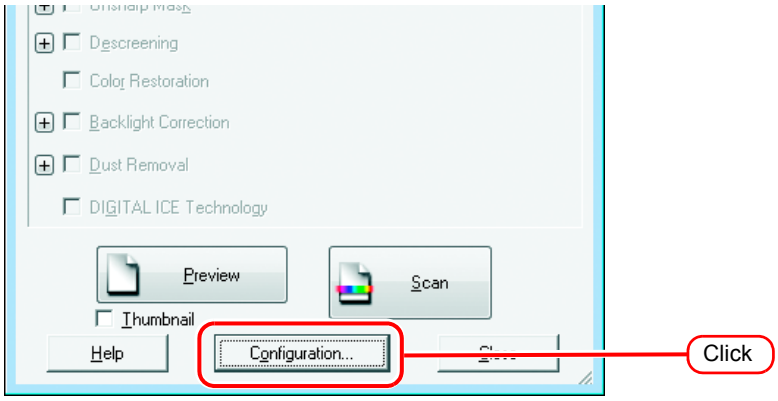


3 Click Scan .

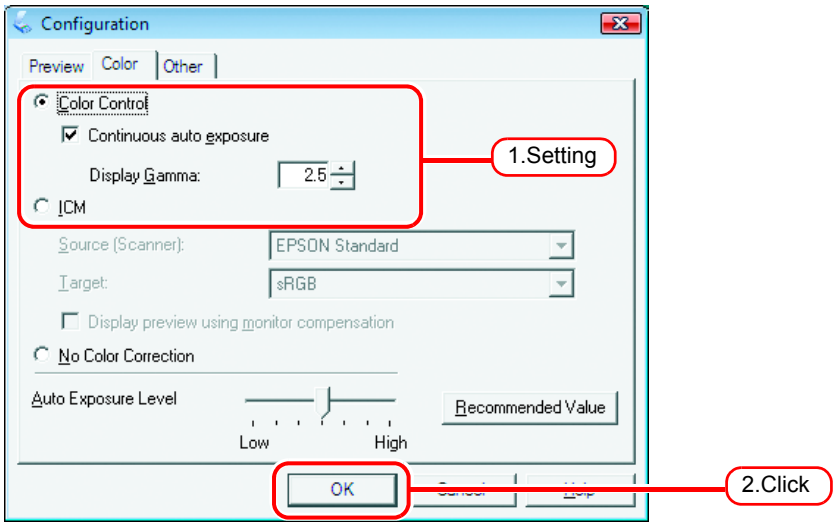
The image is scanned



4 When the image is scanned, the scanner driver screen appears again. Click Configuration... without changing the settings.

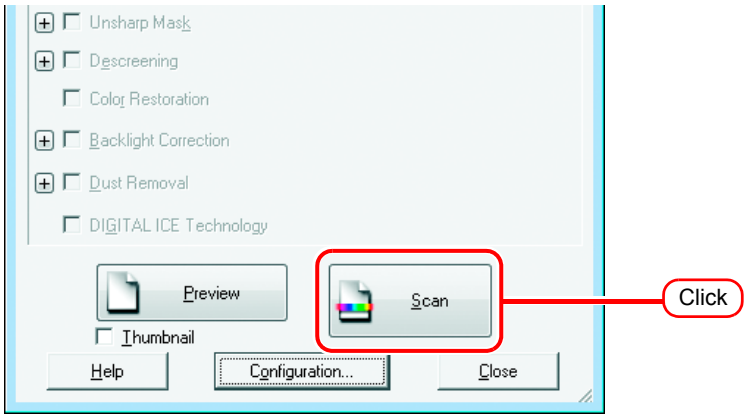


5 On the [Configuration] screen, make the following settings in the [Color] menu, and click [OK].



6 Click [Scan].

The image is scanned again.



This completes the scanning operation.

Referring to "Acquire the color from original document (Scan color) (☞ P.92)", carry out the procedure for the color acquisition function.

Discharging

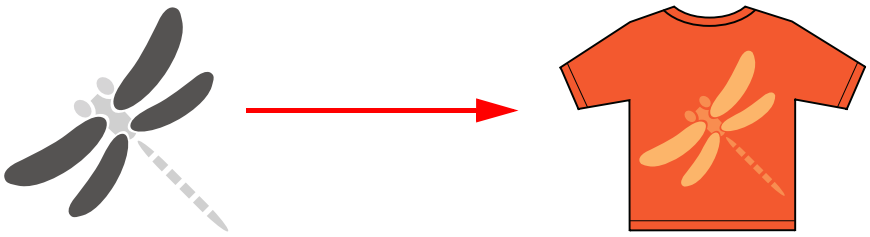
Discharging method

There are several discharging methods as follows:

Printing only by discharge liquid

Print the image by using only the discharge liquid.

Create a monochrome image as the original image.

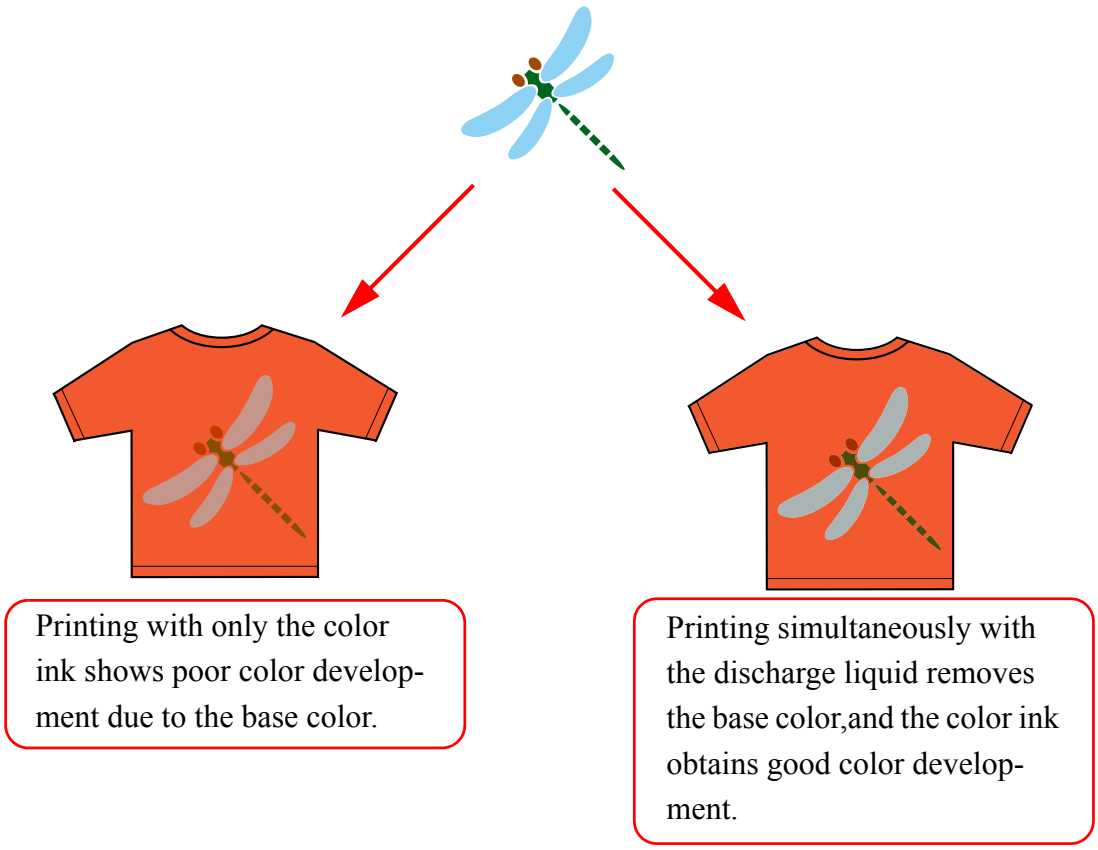


Original image　　Printing -> Post processing

Printing simultaneously with color image

Print the color ink and the discharge liquid simultaneously.

If a colored T-shirt is printed with only the color ink, the image does not stand out. Printing by simultaneously using the discharge liquid removes the color on the T-shirt, and the color ink obtains good color development.



Printing with only discharge liquid

Changing color of printed image for discharging

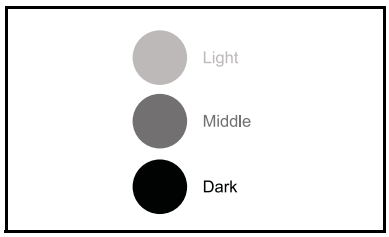
When the image to be printed has color data, select **"Gray scale" (expressing the image by only the black)** for the color of the image data.

Gray-scale image and finish

The discharge liquid is coated most to the darkest portion within the gray-scale image to be printed. That is, the darkest portion of the **original gray-scale image is discharged most when finished.**

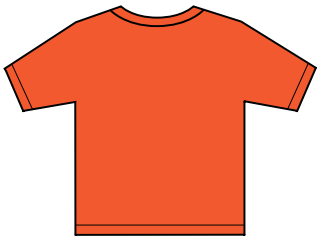
Example)

The image on the right is used as the original image.



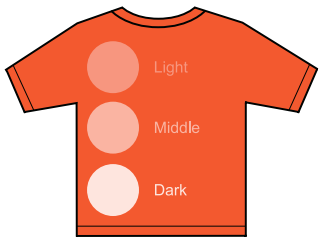
Printing

The image is printed on a colored T-shirt by using the discharging agent, and then postprocessing is executed.



After printing, post process-ing is executed.

As shown on the right, the darkest colored portion of the original image is discharged most.

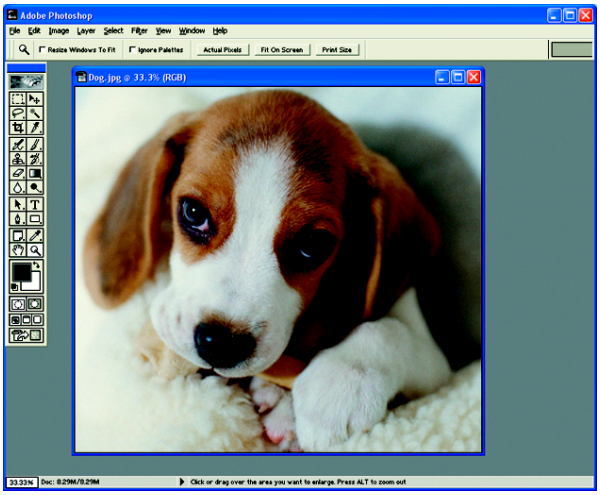


For ordinary printers, a dark portion of the image is printed darkly. However, as a result of printing with the discharge liquid and postprocessing, dark portions of the original image are printed light, and light portions are printed darkly. That is, contrasting density of original image appears inversely. Therefore, the image to be printed requires and black inversion before printing.

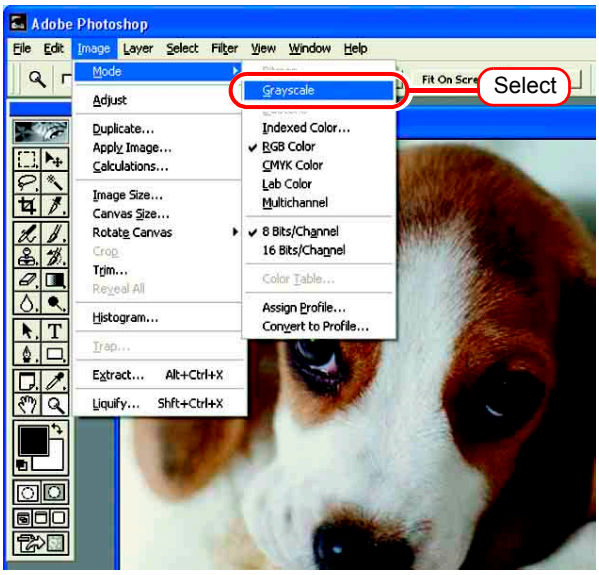
Processing method for Photoshop

This section explains the methods to process the image to a gray-scale image by using Photoshop 6.

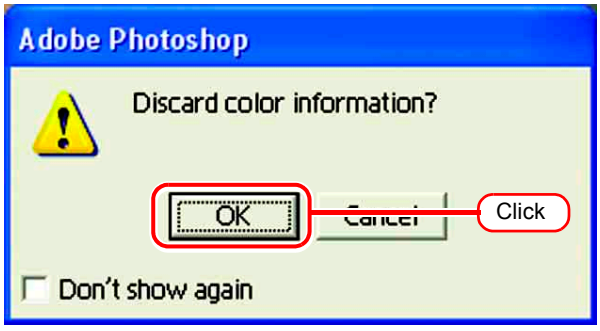
1 Open the image to be edited by using Photoshop.



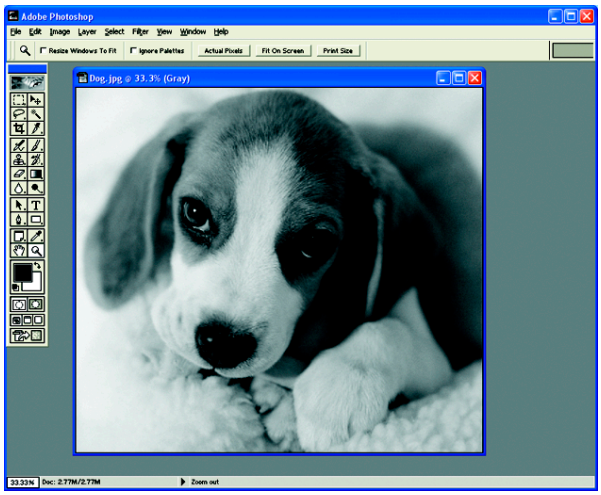
2 Select [Image] - [Mode] - [Grayscale] from the menu.



3 Shown the “Discard color information?” message box.
Click OK .

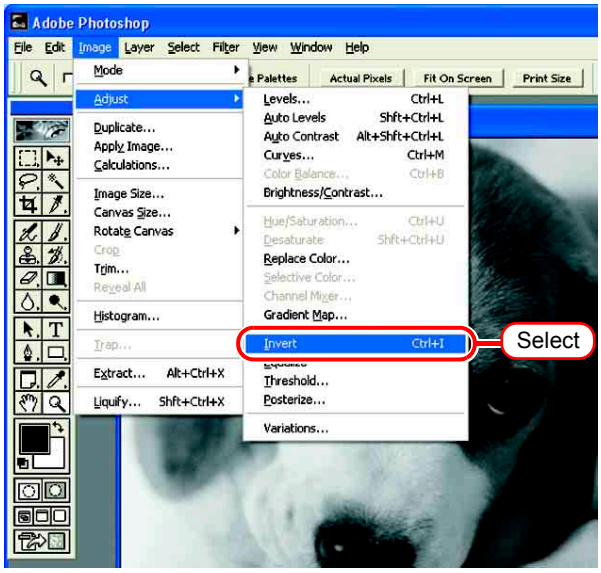


4 The image is converted into a gray-scale image.



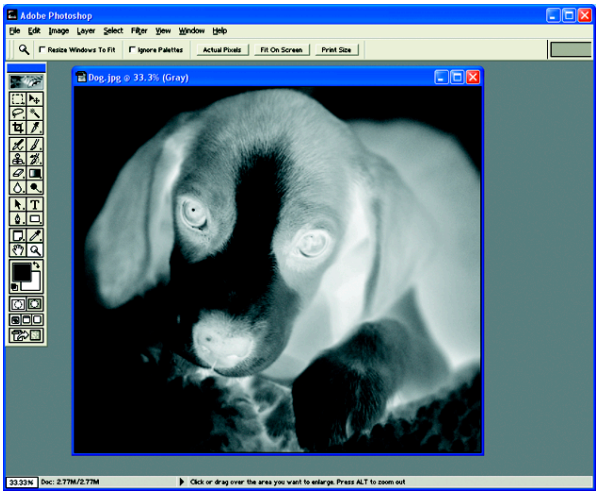
5 Invert the colors of the image.

Select [Image] - [Adjust] - [Invert] from the menu.



6 The colors are inverted.

Save the image.



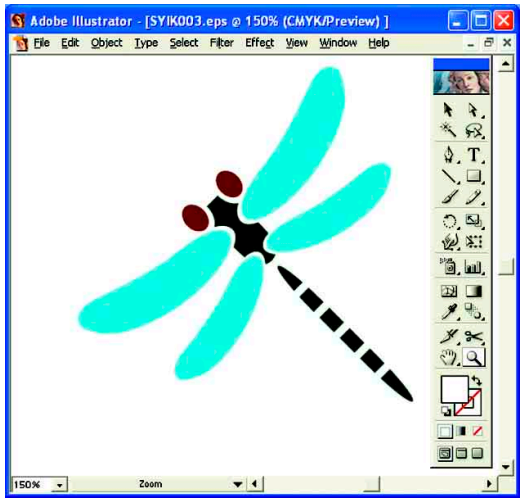
Processing method for Illustrator

This section explains the methods to process the image to a gray-scale image by using Illustrator 10.

There are two methods for processing to a gray-scale image by using Illustrator:

Common operations

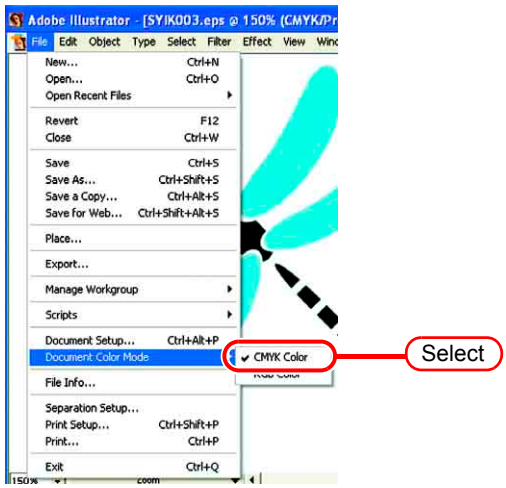
1 Open the image to be edited by using Illustrator.



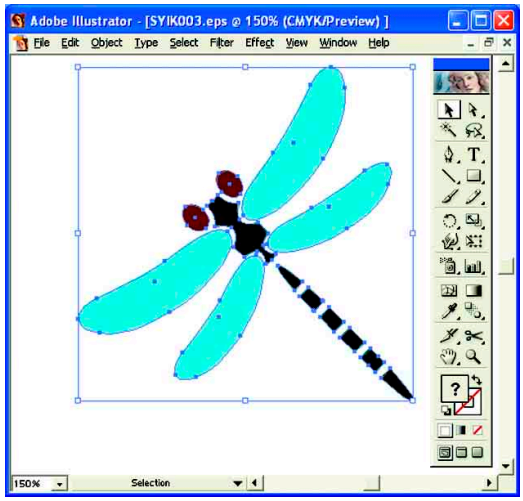
2 When the color mode of the image is "RGB," convert it into "CMYK".

> NOTE ! The color mode of the image is displayed as (RGB) or (CMYK) on the title bar.

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

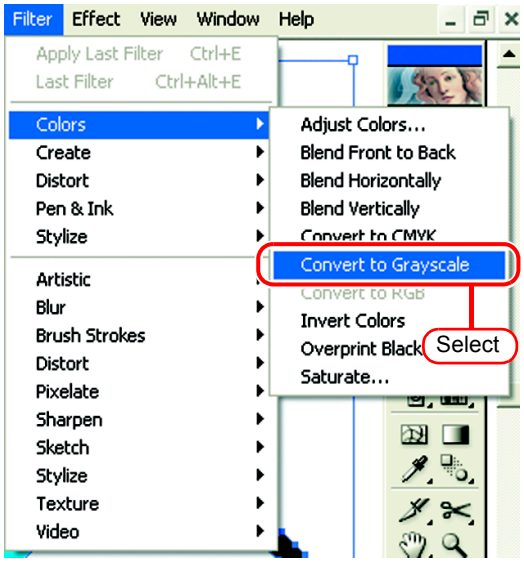


3 Select all objects.

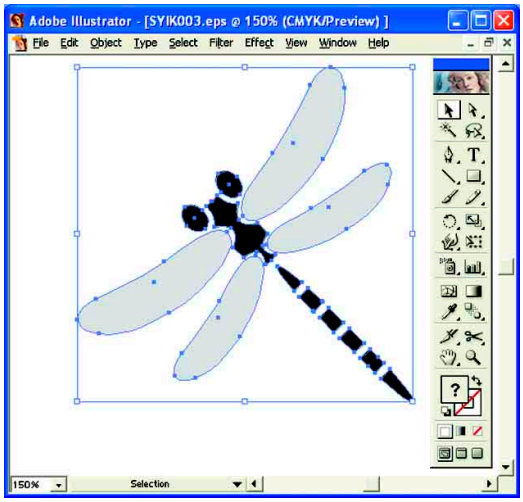


A. Converting to gray-scale image with vector objects left as is

1 Select [Filter] - [Colors] - [Convert to Grayscale] from the menu.

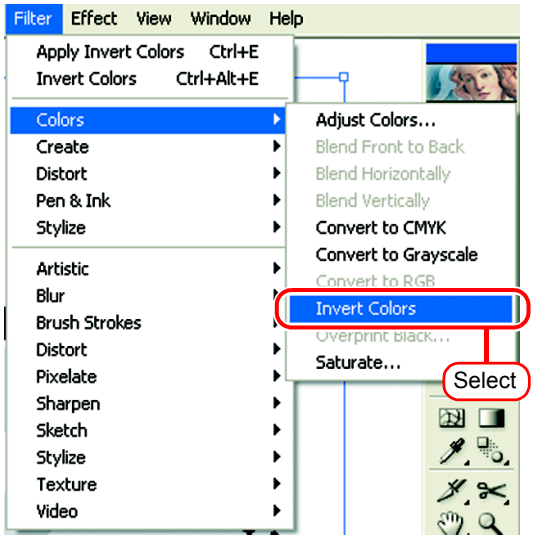


2 The image is converted into a gray-scale image.

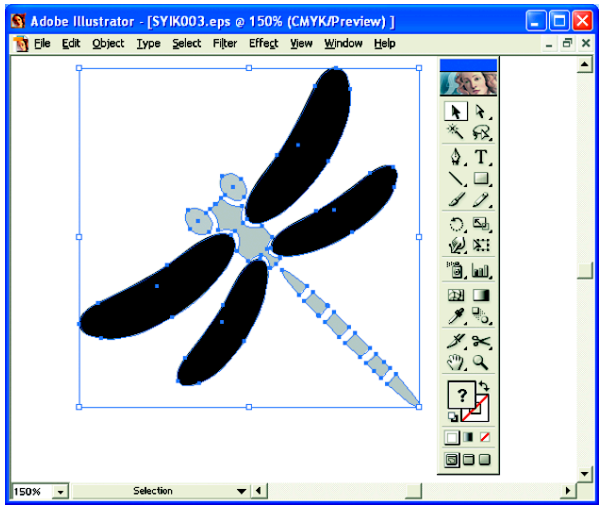


3 Invert the colors of the image.

Select [Filter] - [Colors] - [Invert Colors] from the menu.



4 The colors are inverted.

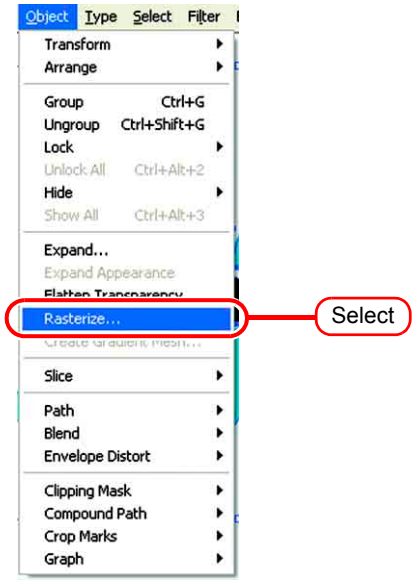


> **NOTE !** If an object is complicated, part of colors may sometimes be converted into a color other than gray. In this case, Rasterize it to process it to a gray-scale object (explained in the next chapter), or select only the object, and then execute [Convert to Grayscale] again.

Save the image.

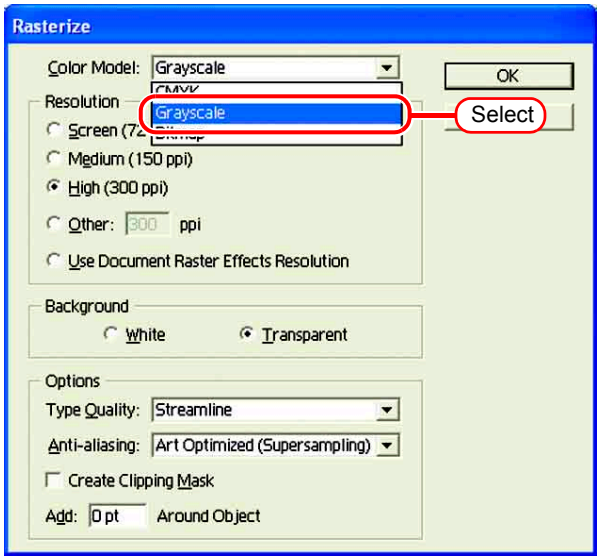
B. Processing to gray-scale image by Rasterizing

1 Select [Object] - [Rasterize…] from the menu.



2 The “Rasterize” dialog box is displayed.

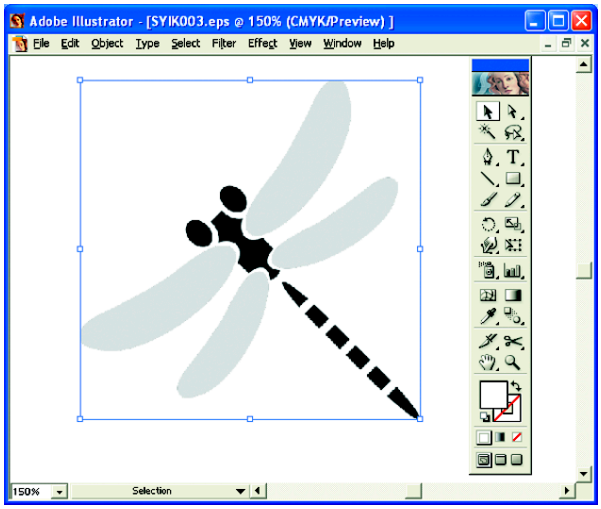
Select “Grayscale” from “Color Model”.



> **NOTE !** When the “Background” is set to “White”, the background color becomes black by inverting the colors. When the “Background” is set to “Transparent”, the background color remains white.

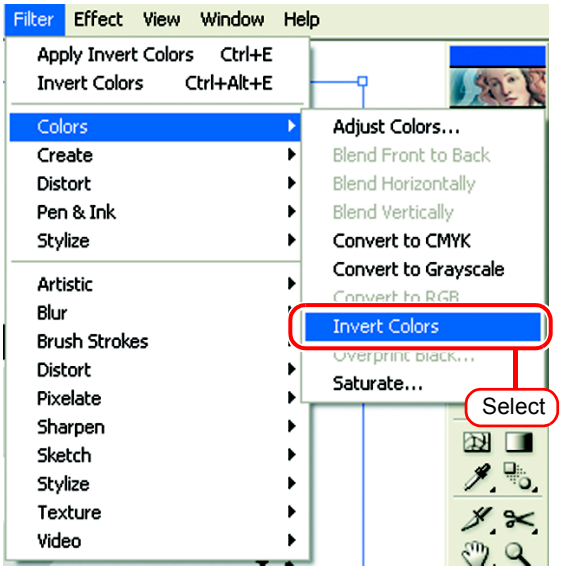
3 The image is converted into a gray-scale image.

NOTE ! At this point, all objects are integrated into a single Raster object.



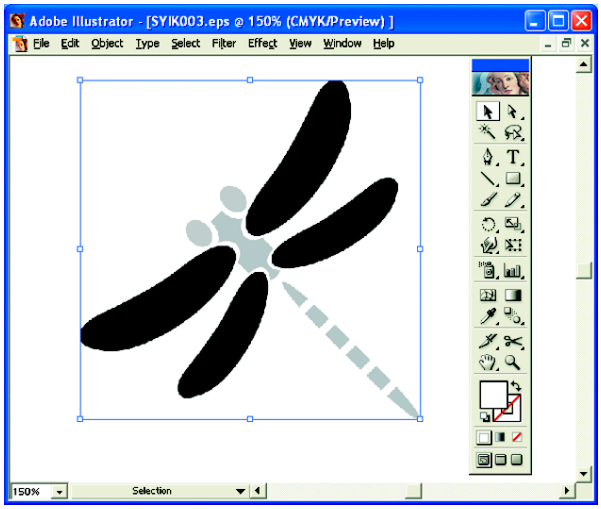
4 Invert the colors of the image.

Select [Filter] - [Colors] - [Invert Colors] from the menu.



5 The colors are inverted.

Save the image.



RasterLinkPro5 TA settings

This section explains the RasterLinkPro5 TA settings.

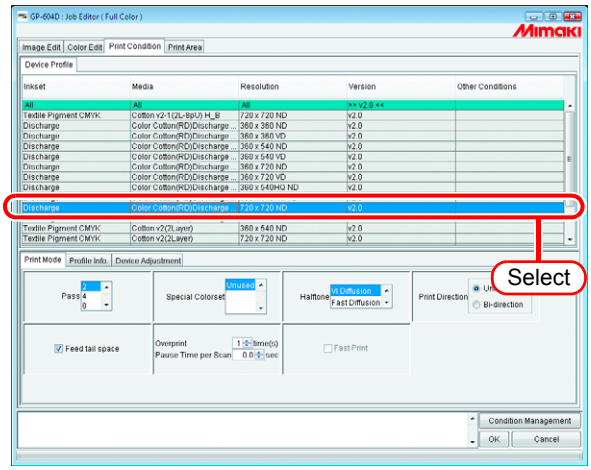
Changing Printing Conditions

When using only the discharge liquid, set the Printing Condition, as listed below. For details of the Printing Condition settings, see the Reference Guide.

1 Select a job for discharging, and then open the Job Editor.

2 Open [Print Condition] of the Job Editor.

Select the “Discharge” profile.



Printing simultaneously with color image

RasterLinkPro5 TA settings

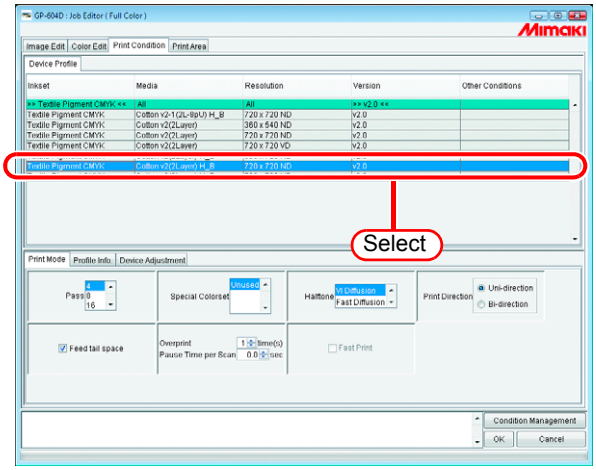
This section explains the RasterLinkPro5 TA settings.

The settings for printing the discharge liquid simultaneously with the color image are as follows.

1 Select a discharging job, and then open the Job Editor.

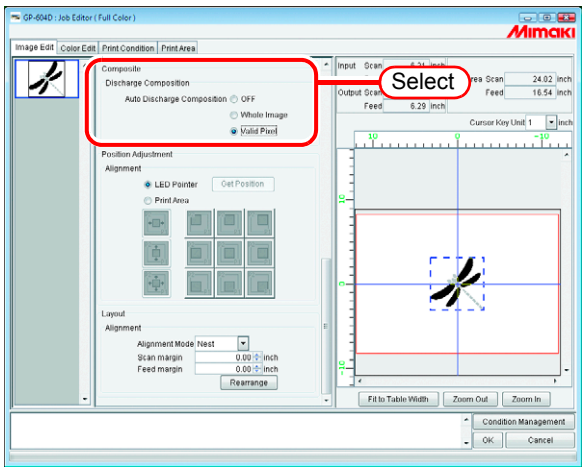
2 Open the [Print Condition] menu of the Job Editor.

Select the “Textile Pigment CMYK” profile.



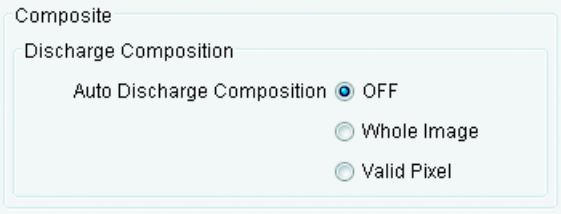
3 Open the [Image Edit] menu.

Specify the discharge liquid printing method by “Discharge Composition”.



NOTE ! When “Discharge Composition” is not selectable, profile for “Discharge” is selected in the Inkset of [Print Conditon]. Select the profile for “Textile Pigment CMYK”.

Auto Discharge Composition



OFF : The discharge liquid is not-printed.

Whole Image : The discharge liquid is printed over the entire image (area enclosed by dotted square in the pre-view).

Valid Pixel : The discharge liquid is printed only to the portions having a color in the image.

D202031-12-11082011

NH
SW: 2.4