Mimaki

RasterLinkProII

Software RIP

RasterLinkProII

Reference Guide

For UJF-605C / 605R / JF-1631

This guide explains about features of Raster Link Pro II for the color Inkjet printer “UJF-605C”, “UJF-605R” and “JF-1631”.

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The kinds of manuals and how to use them

This product comes with following manuals.

Installation Guide

This manual explains about the following.

- How to set up PC (Windows 2000, Windows XP) in order to install Raster Link Pro II.
- How to install a printer driver into a client PC and how to set up.

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 Raster Link Pro II.
Read the proper reference guide for your printer.

You are now reading this manual.

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About this Instruction

This manual explains how to operate Raster Link Pro II for printing ink jet printer “UJF-605C” and “UJF-605R”.

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 Raster Link Pro II. Once data in any format from application software such as Adobe Illustrator is spooled in Raster Link Pro II, it is registered in Raster Link Pro II and becomes a job.

Scan: “Scan” on the Raster Link Pro II means the head moving direction (Y direction) of printer.

Feed: “Feed” on the Raster Link Pro II means the table moving direction (X direction) of printer.

Table of Contents

Editing the Job

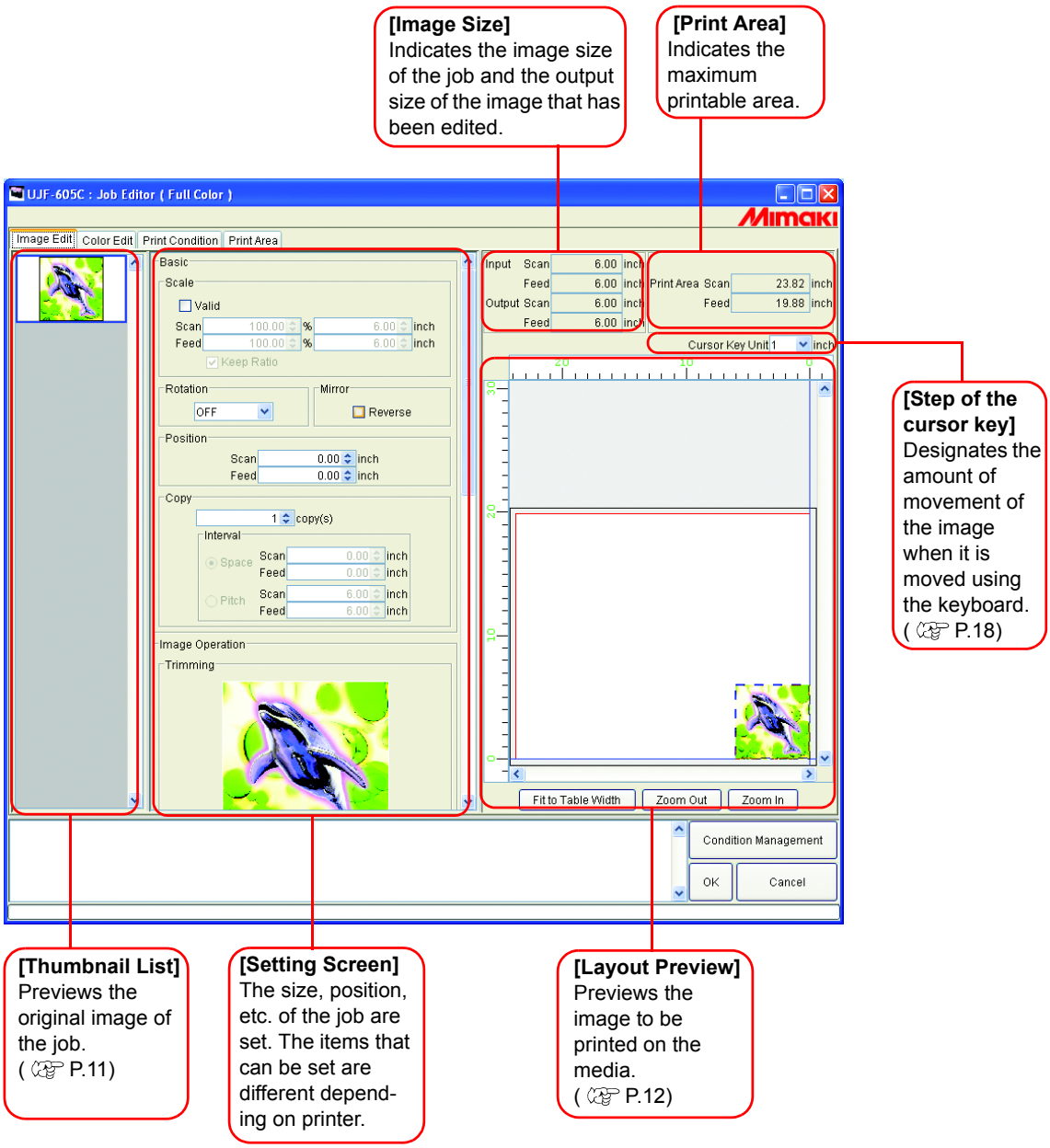
This chapter explains how to edit the Job.

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



Thumbnail List

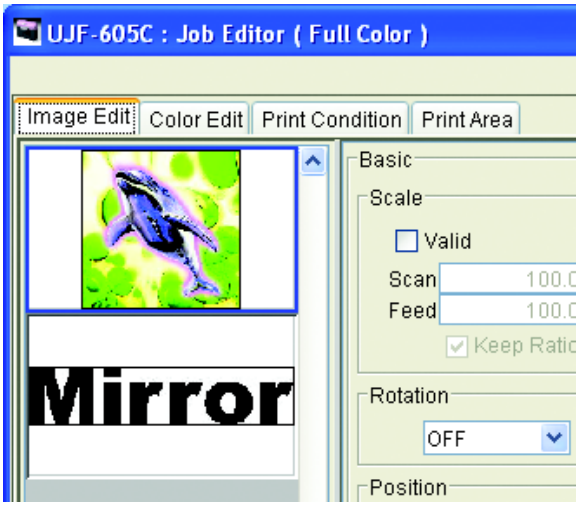
This function lists the thumbnail images of the jobs that can be edited.

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.

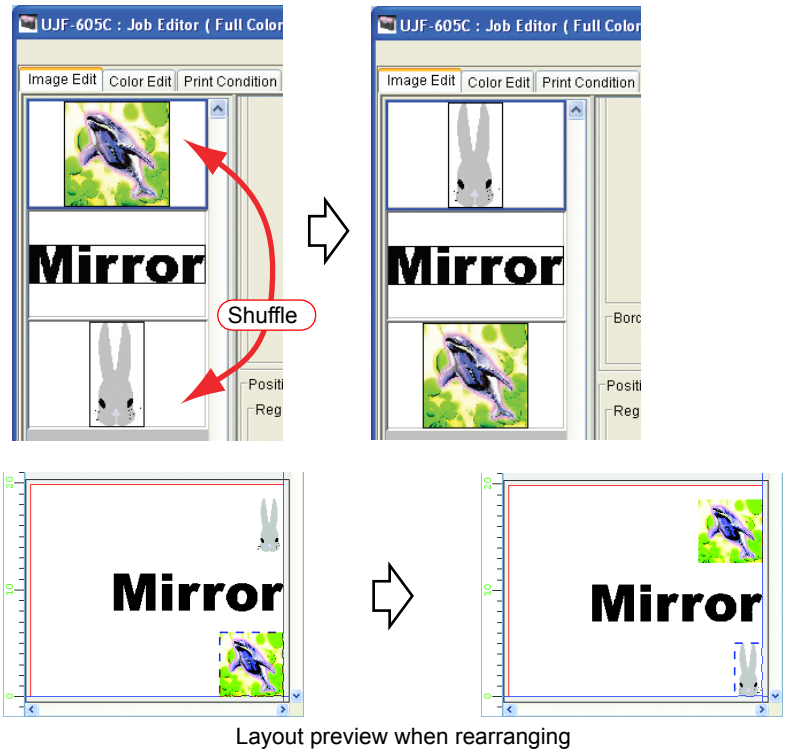
Two or more jobs selectable by clicking each of them while pressing the Ctrl key.

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

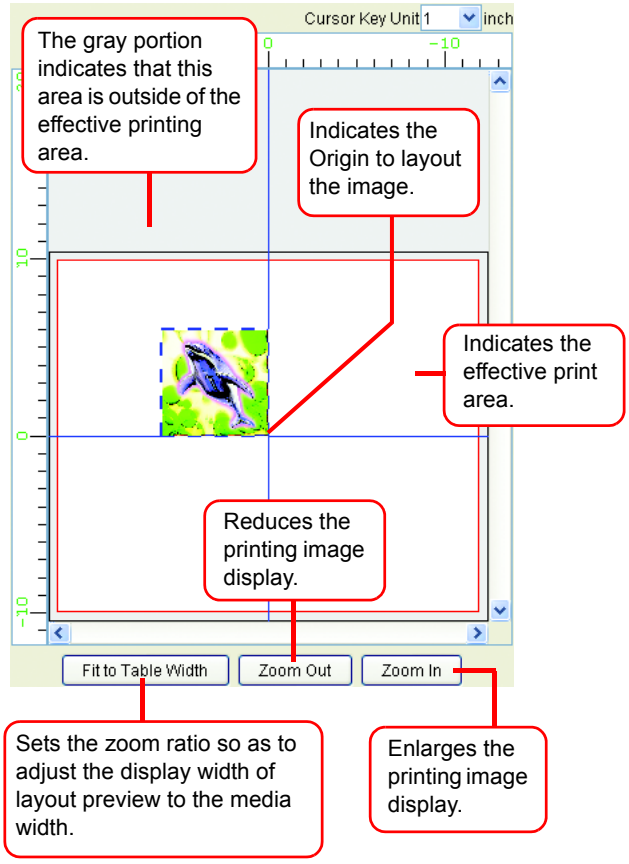
Layout Preview

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.

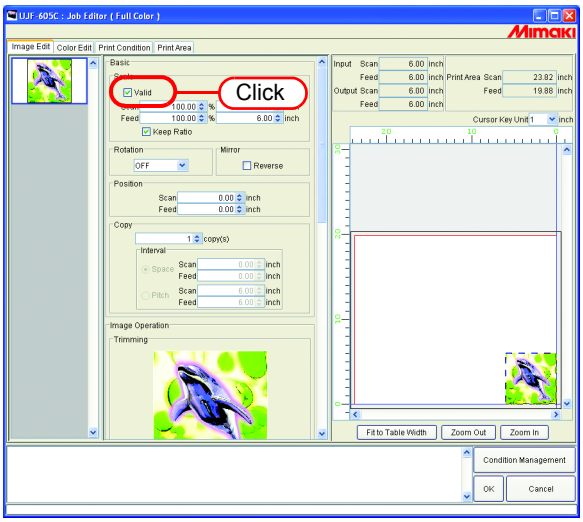
Click any point outside the jobs to cancel all the selection of any jobs.



To Print in Scale (Scale)

This function enables you to enlarge or reduce the image.

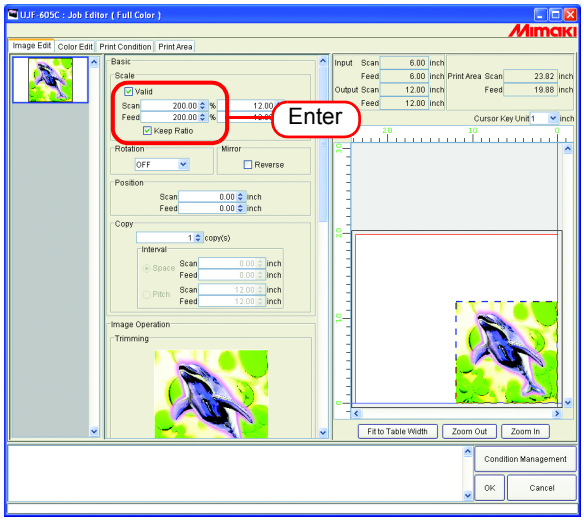
When you have not checked “Valid”, the image is printed with the size created in application software.



To Print at a Specified Ratio

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

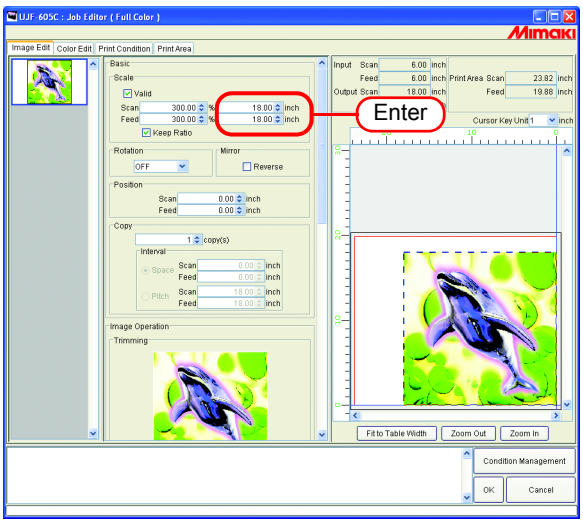
- If you right-crick on the value entry box, you can set the amount of increase or decrease of the up and down arrow buttons. You may also increase or decrease the input value using ↑ and ↓ keys on the keyboard.
- By checking “Keep Ratio”, and entering one value or the other, it controls the other value 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.

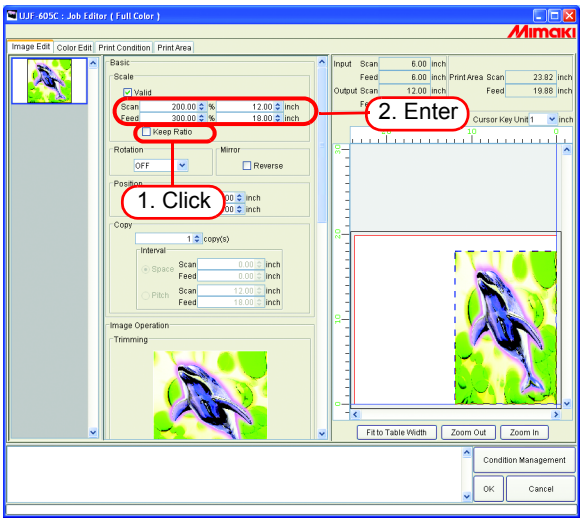
- By checking “Keep Ratio”, and entering one value or the other, it controls the other value to be automatically rectified with the same ratio.
- The unit of size changeable by optional setting. (☞ Reference Guide Common features for every printer P.85)



To Print at Different Ratio in Scan and Feed directions

Deselect “Keep Ratio”.

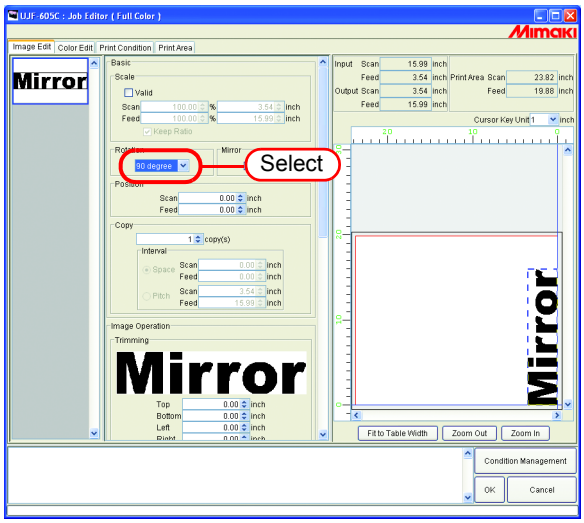
Set scale values in scan and feed directions, respectively by ratio or by value.



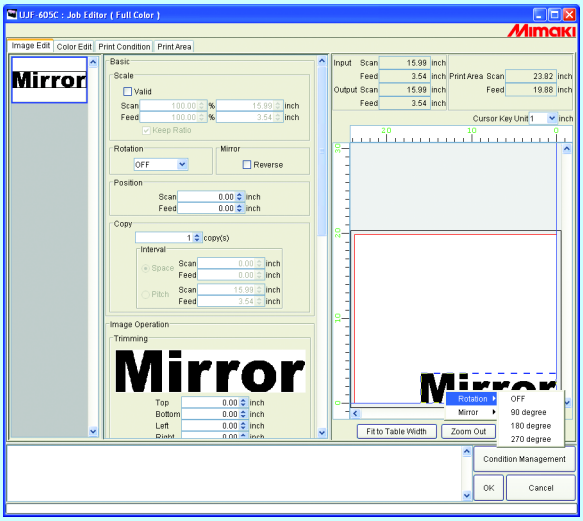
Rotating Print Data (Rotation)

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.

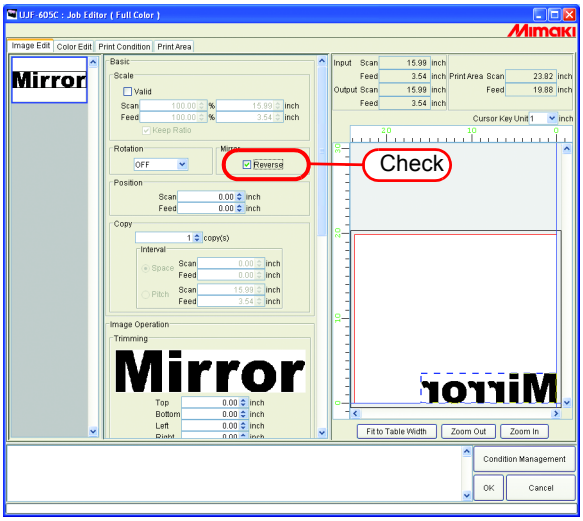


Printing a Mirror Image of the Print Data (Mirror)

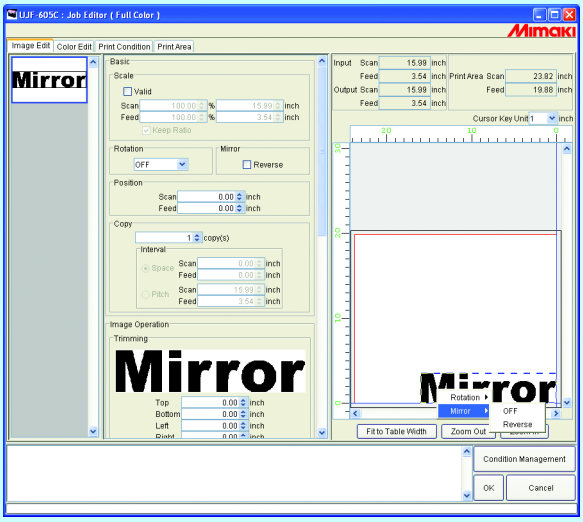
Print mirror images.

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)

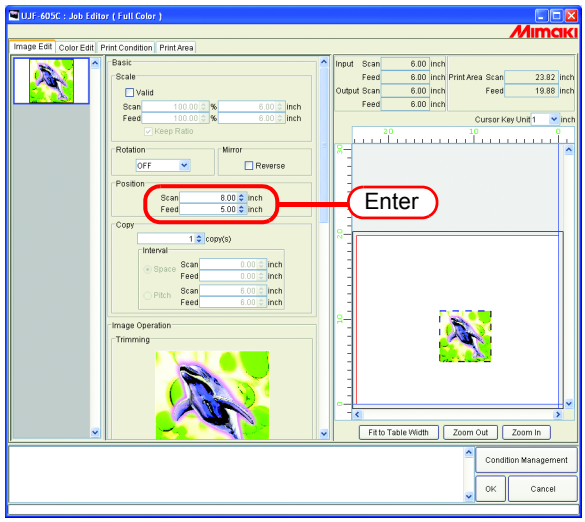
The image can be moved to any part of media and print it.

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.



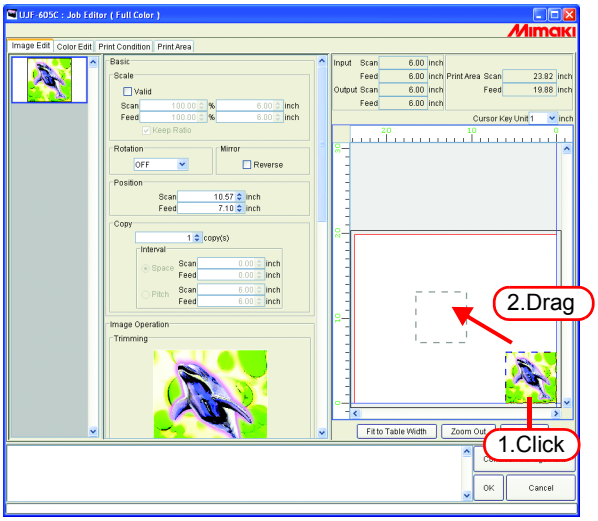
Moving an Image by the Mouse

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.

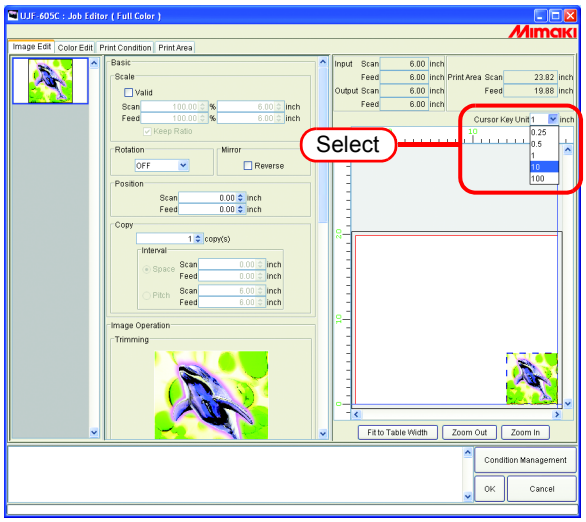
Drag the image to the target position



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.

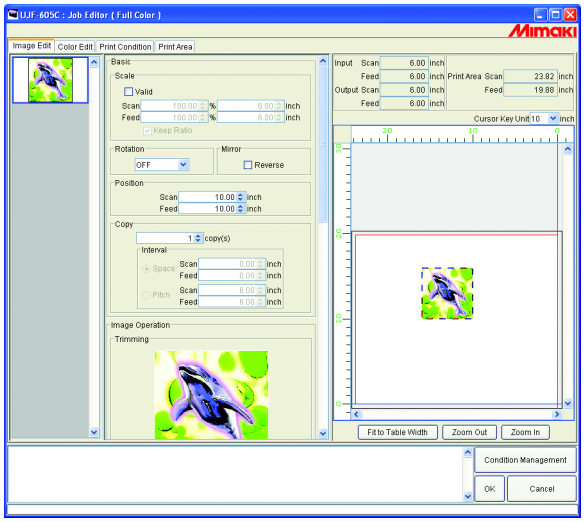


2 Click an image in the layout preview to select a job.

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.

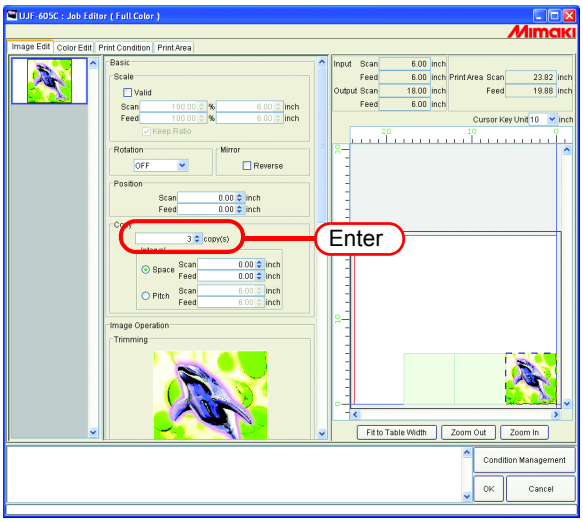
Ordinarily, Print data is copied in feed direction.

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.

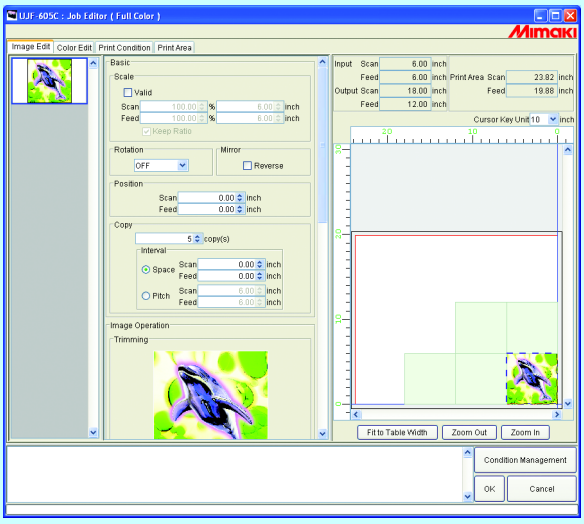
By setting value at Interval is enabled, margins are set between images.

NOTE ! When multiple jobs are edited at the same time or when “Paneling” is set, the copy setting cannot be performed.

Enter Copy count.



The copied images are automatically nested.



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

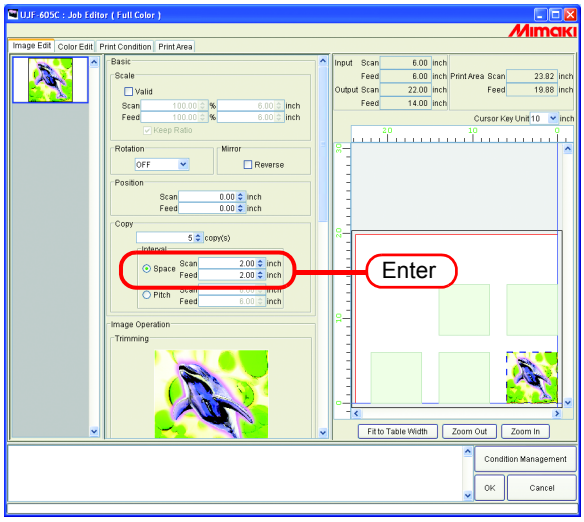
Setting Interval

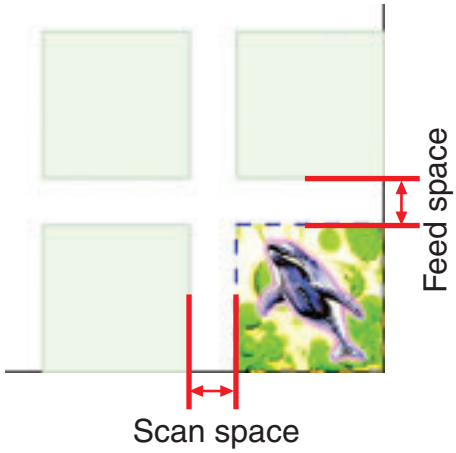
When copies are set and printed, it is difficult to determinate the boundary between consecutive images.

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.

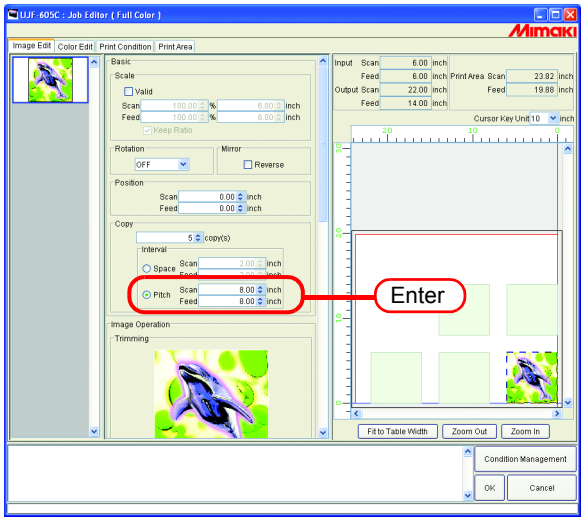


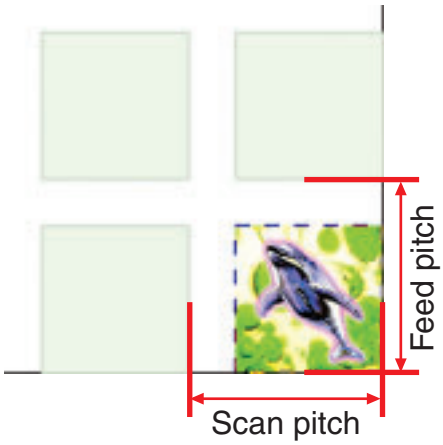


NOTE ! Depends on the image, spaces may be added to outside of the images during RIP process.
In that case, the spaces will be inserted even if setting the margin to “0”.

Pitch

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

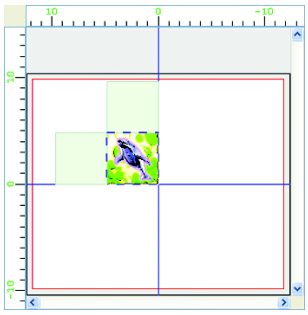
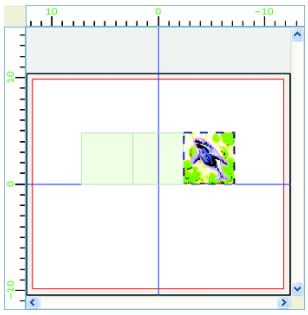
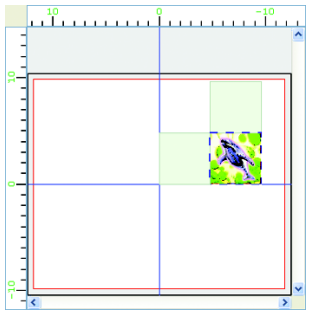
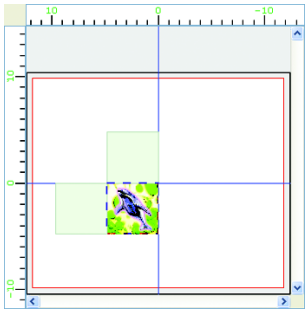
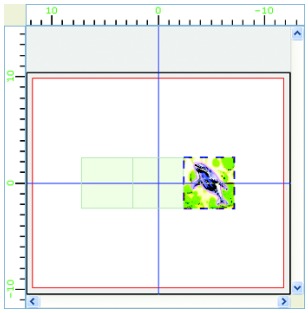
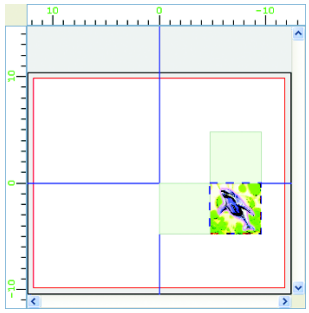
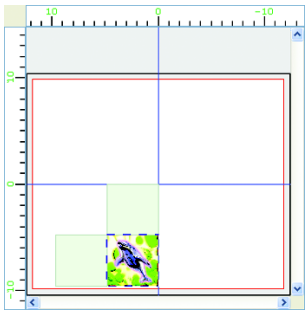
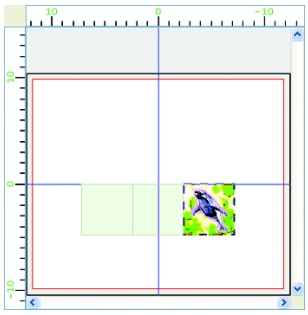
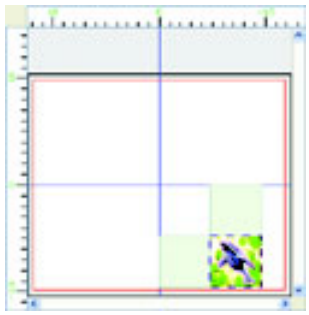




Relationship between the layout setting and the nesting

The number of the nesting and the positioning are determined depending on the “Layout setting” (☞P.109).

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

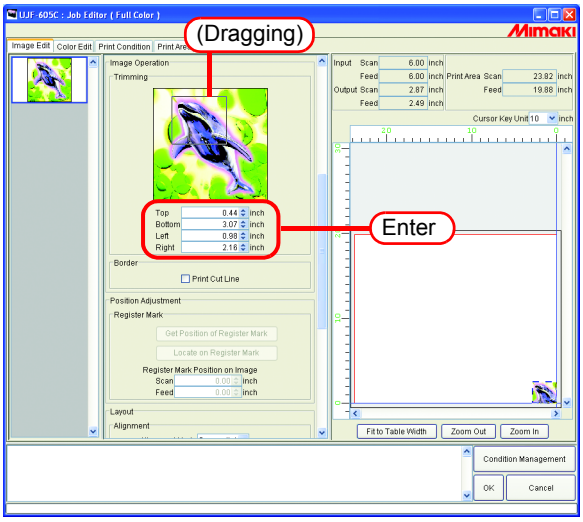
Scan direction / Feed Direction	Snap to front edge	Fit on Center	Snap to back end
Snap to front edge			
Fit on Center			
Snap to back end			

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.

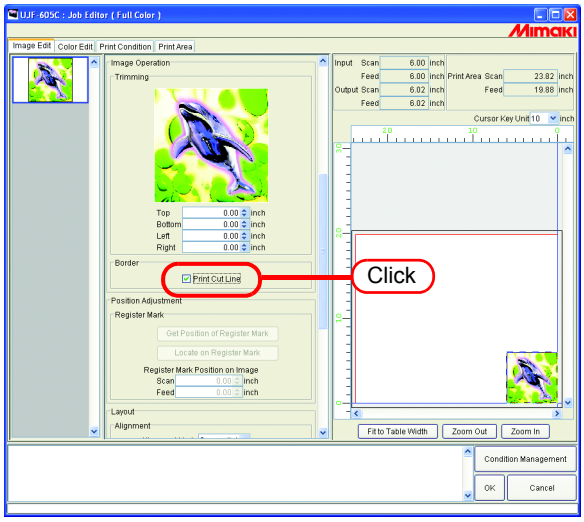
NOTE ! Scale and rotation are applied to images after trimming. Therefore, even if the scale and rotation settings are changed, the trimming position does not change. Furthermore, the trimming value is shown at the original size before scale is applied.

Print Cut Line (Print Cut Line)

Prints the cut lines around the image.

> NOTE ! When the “Paneling” is enabled, “Print Cut Line” cannot be set.
> If you enable “Paneling” under the state where “Print Cut Line” is checked, the checking of “Print Cut Line” is released.

Check “Print Cut Line”.



> If you check “Print Cut Line”, the output size including cut lines is displayed.

Setting the location when printing out (Mark) only “UJF-605C”

Acquire the setting position of Mark from the printer, and specify the location of printing data in details.

NOTE!

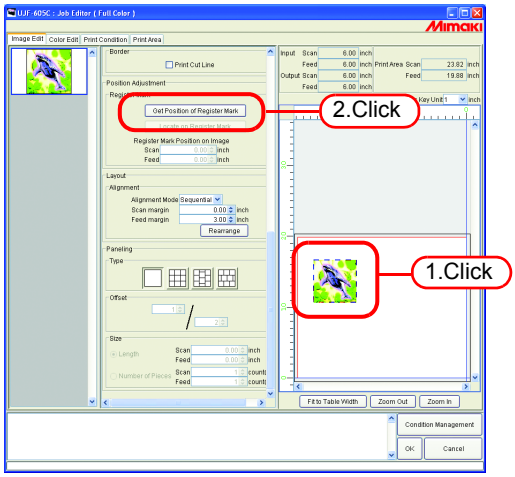
- Set the Mark by printer beforehand.
- In case no job is selected, selected two or more jobs, set the number of copies to two or more, Get Position of Register Mark button is ineffective.
- When you have not set a printing origin or print area by printer, set the maximum print area [(0, 0)] as the initial value.
- Various settings for the Mark are available only when you have acquired the position of the Mark.
- When no Mark can be acquired, check the following:
  1) Power to the printer is ON.
  2) The printer is connected to the PC with IEEE1394.

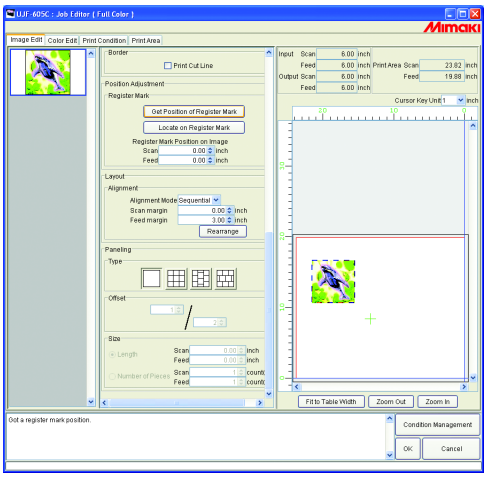
Getting the marking location

Click a layout preview image to select a job.

Click Get Position of Register Mark.

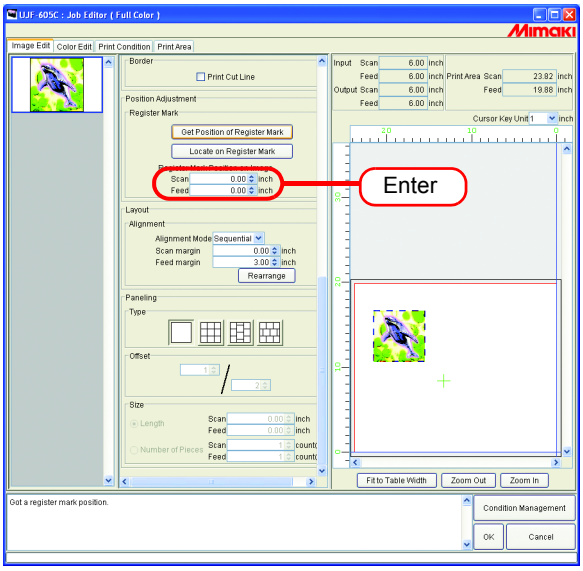
The position of the Mark is acquired and is displayed in the print area view.





Place marks at the standard location

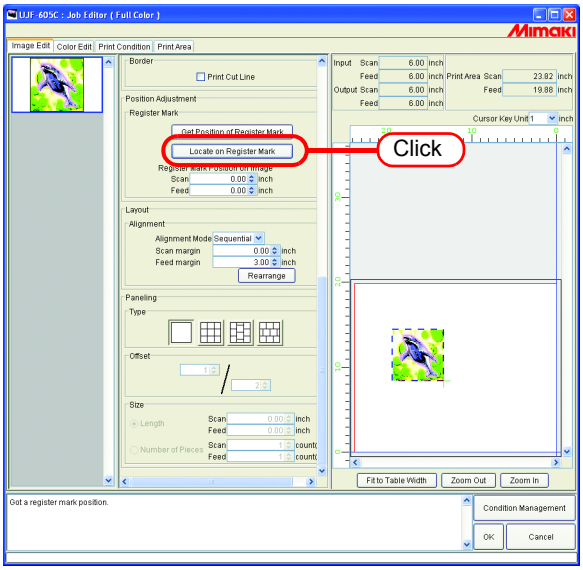
1 Input length from bottom right of the job to the mark position.



2 Click [Locate on Register Mark].

Place the bottom right of the Job onto the mark.

When setting the marking position, specify the set position.



If the position of register mark is changed by the plotter, click [Get Position of Register Mark] again and reacquire the position of the register mark.

NOTE!

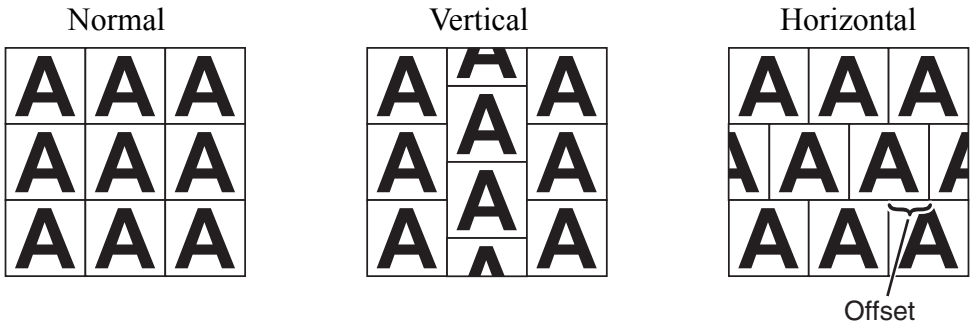
- Get the precise mark position from the bottom right of the job on the application.
- Some marks on the job may not be displayed on the preview window for the low-resolution preview image. In the case, input the mark position defined on the application to get the mark print on the correct position in actual printing.
- Refer to manuals of a using printer for a detectable mark shapes.

Paneling printing (paneling)

Prints images arranged in three types of pattern.

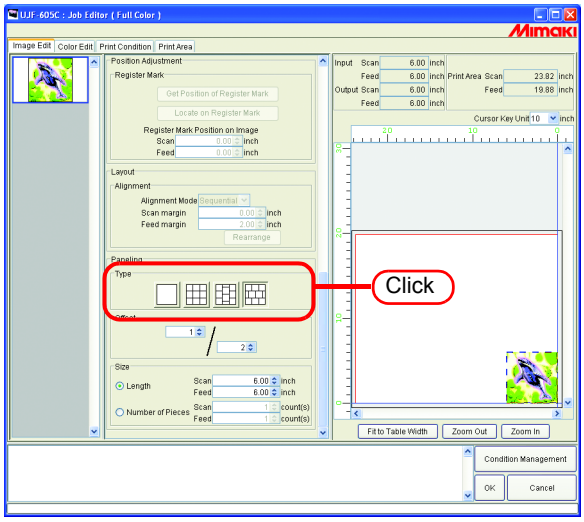
NOTE!

- “Paneling” cannot be set when editing multiple jobs at the same time, and when multipage jobs, and “Copy” is set.
- When “Paneling” is set, “Immediate Print” is not possible.

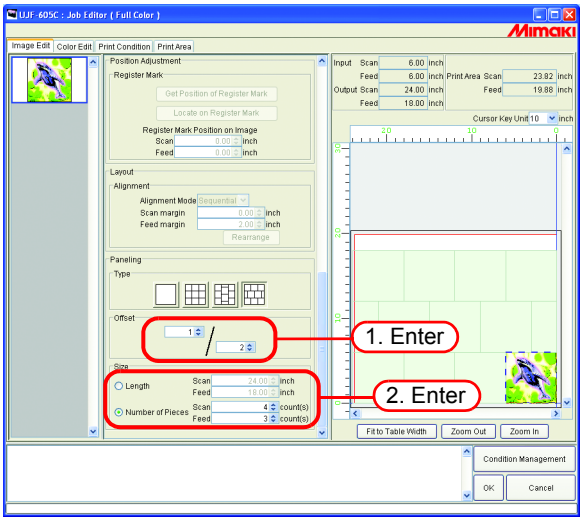


1 Select the type of paneling.

The paneling function is enabled when any type is selected.



2 Specify the amount of “Offset” for arranging the image.



The offset is the amount by which the image is shifted.

> NOTE ! Offset is enabled when the paneling type is “Vertical” or “Horizontal”.

Specify the repeating length of the image.

- Length
  Prints the image repeatedly at the length intervals specified for scan direction and feed direction.
- Number of Pieces
  Prints the image repeatedly to the number specified for scan direction and feed direction.

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

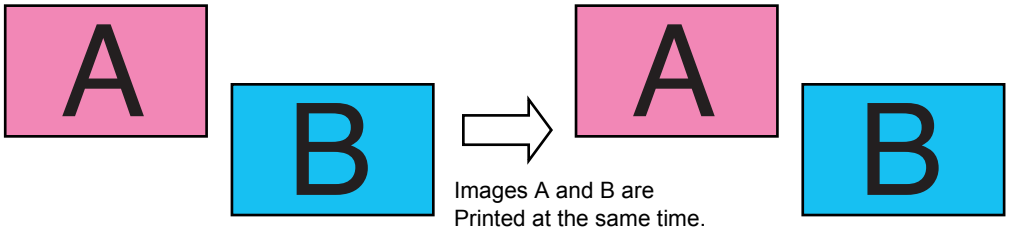
Print multiple jobs at the same time (Grouping)

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

There are two types of grouping.

Arranged

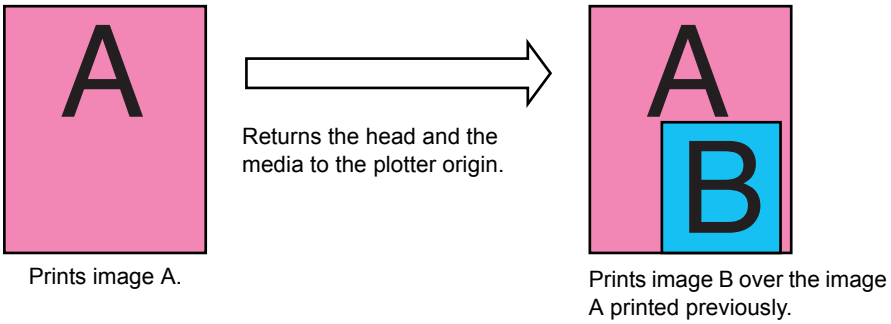
All images are printed collectively at once.



Composite

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.



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.

How to designate “Arranged”

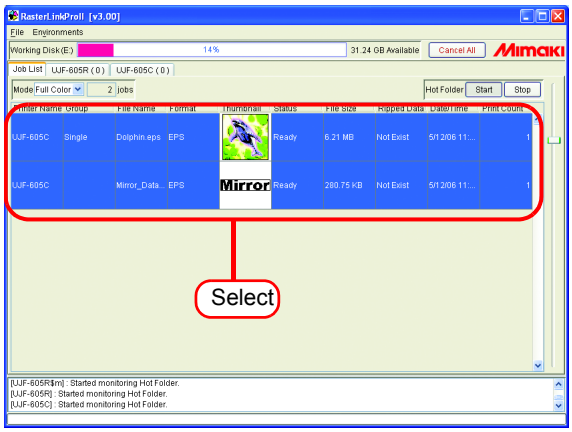
NOTE ! Depends on the image, spaces may be inserted in between the images even if arranging the image with no space.

Arranging on “Job List”

NOTE !

- The jobs for which “Paneling” is set cannot be Arranged.
- 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.

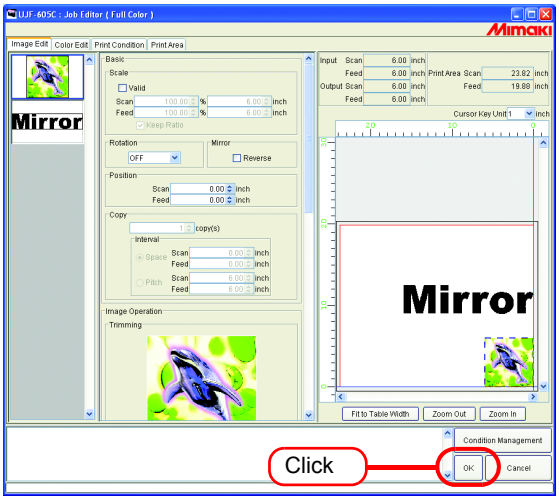


- You can select two or more jobs by clicking each of them while pressing the Ctrl key.
- By clicking jobs while pressing the Shift key, you can select all the jobs ranging from the job which you click first to the job you click second.

2 Open “Job Editor”.

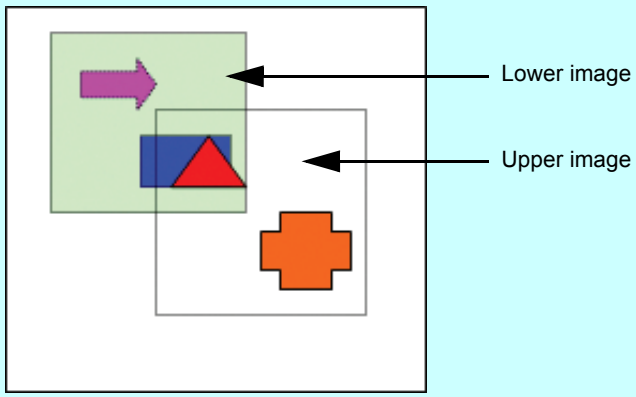
As for the opening method of “Job Editor”, refer to Reference Guide, Common features for every printer.

Perform job editing, and click OK .



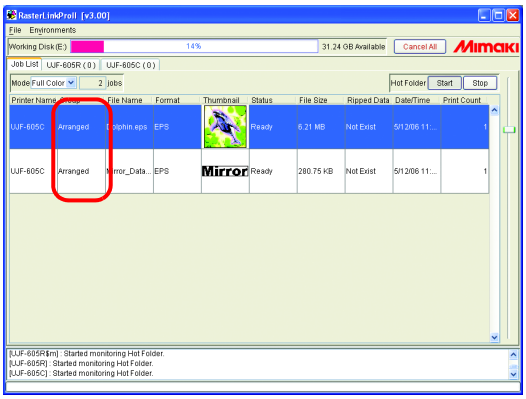
NOTE!

- 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”.

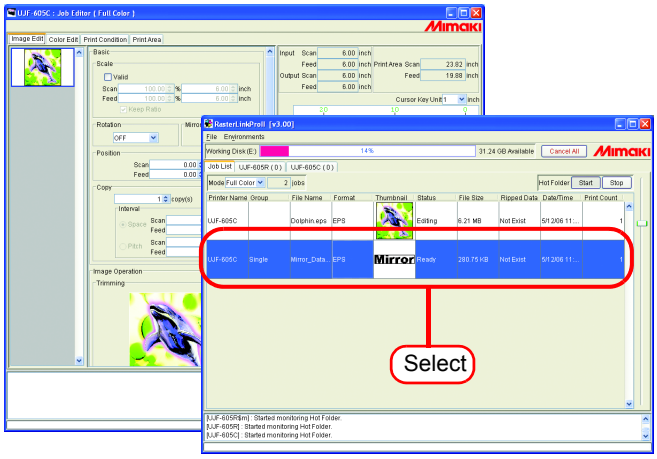
NOTE !

- When “Paneling” is set on the jobs being edited currently or the jobs to be added, the job cannot be added.
- 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.

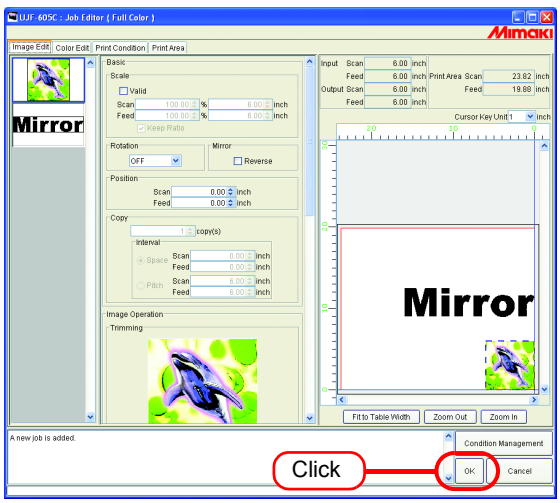
A job is able to add by any of the following methods:

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

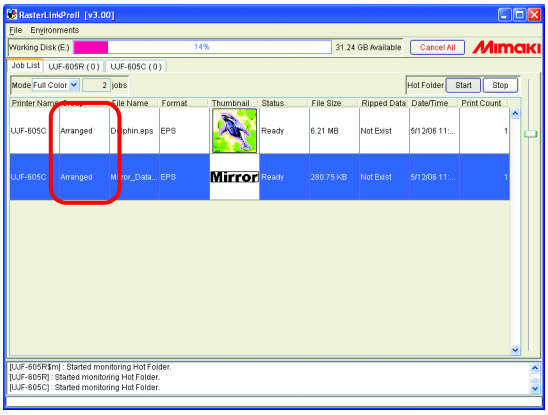


2 The job is added to “Job Editor”.

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".

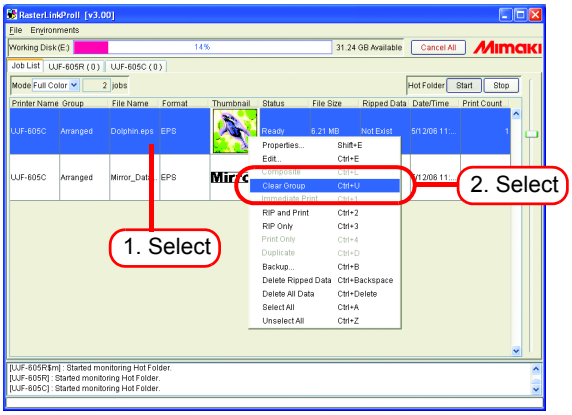
Clear Group

Arranged jobs are able to be removed from the group.

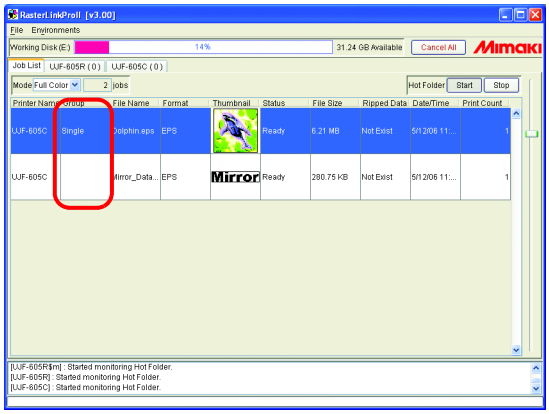
> NOTE ! Arranged cannot be canceled for jobs with a status other than “Ready”, “Printed”, “Cancel”, and “Error”.

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.

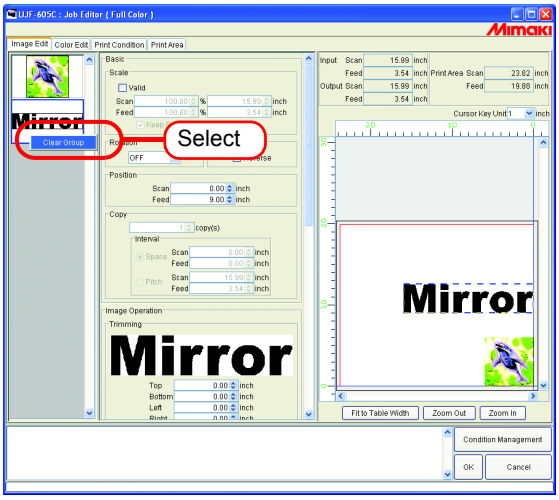


Removing a job from the arranged jobs group being edited

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)

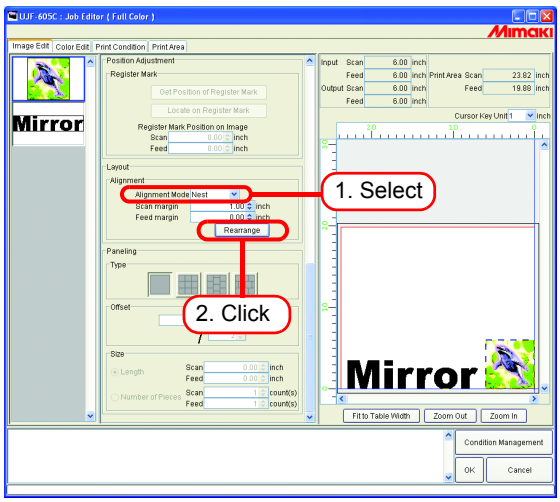
Arrange in the scan direction (Nest)

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 .



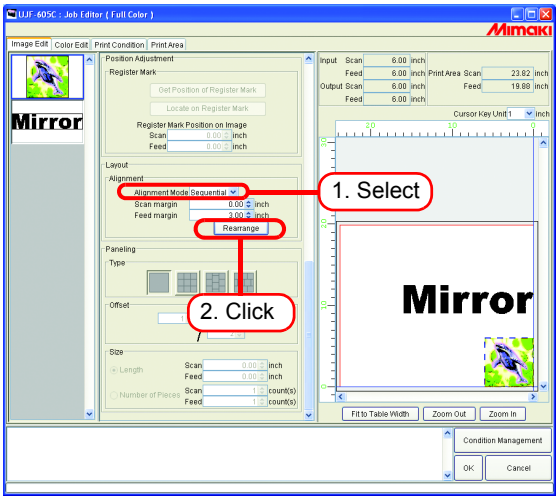
Arrange in the feed direction (Sequential)

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.

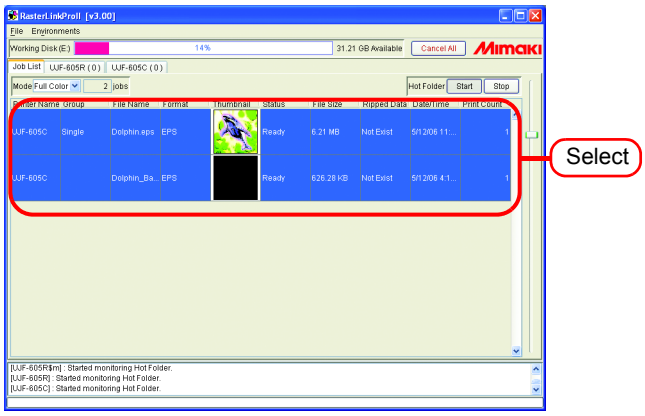
When “Copy” is set, Jobs cannot be rearranged.

How to designate “Composite”

NOTE !

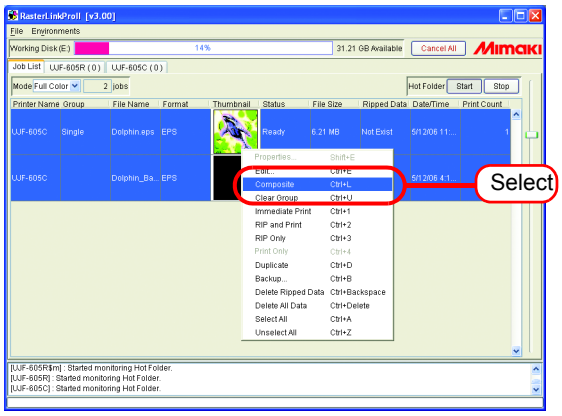
- The jobs for which “Paneling” is set cannot be Composite.
- Composite is not available with any job for which the number of copies has been set to two or more.
- Jobs with a status other than “Ready”, “Printed”, “Cancel”, and “Error” cannot be composited.

1 Select two or more jobs on Job List.

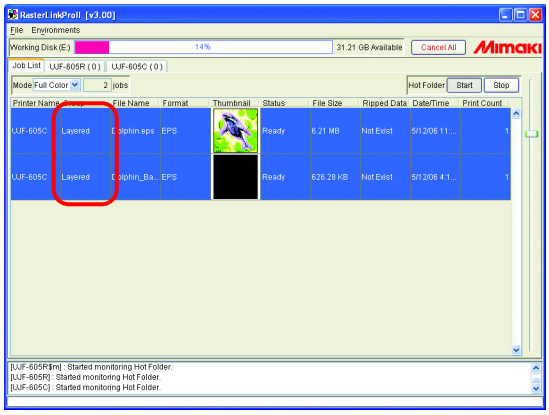


2 Right click it and select “Composite”.

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

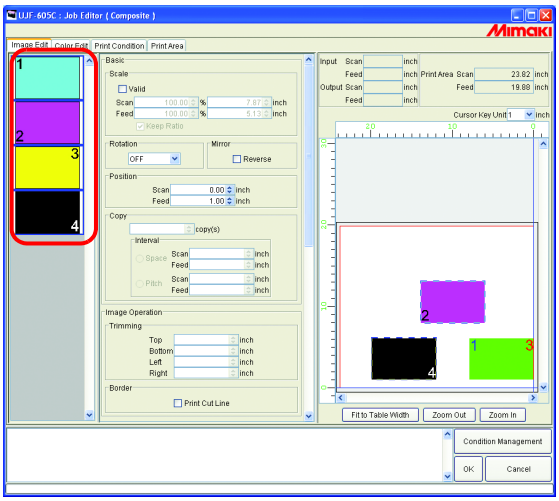


3 On the “Group” column of the selected job, “Layered” will be indicated.

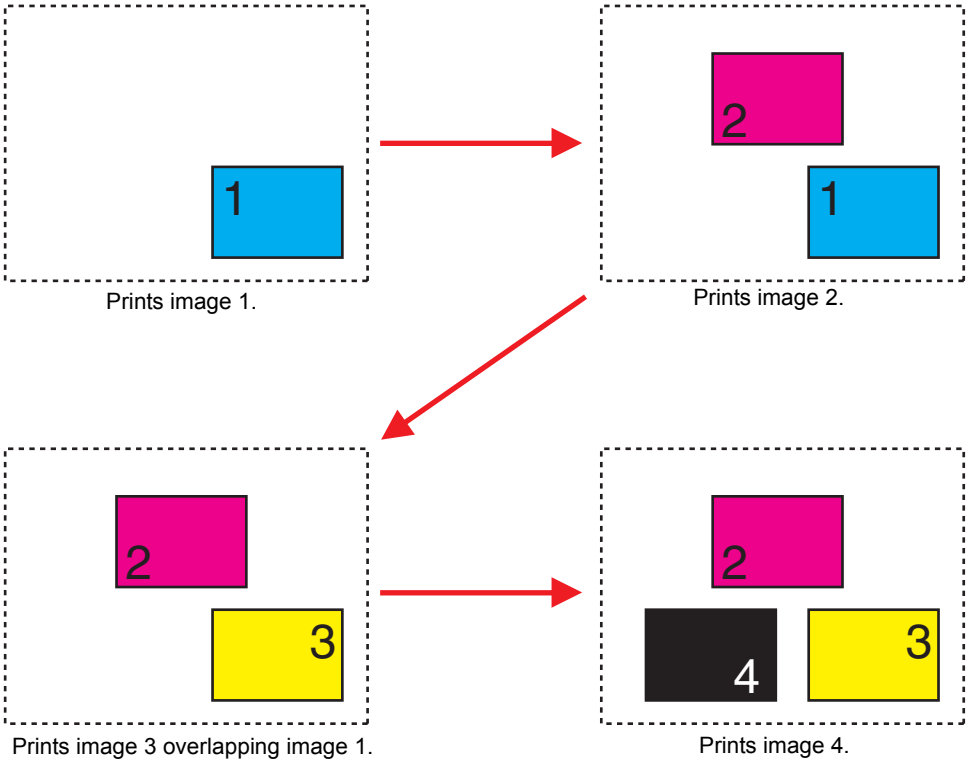


Setting the printing order of the multiple jobs made “Composite”

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.



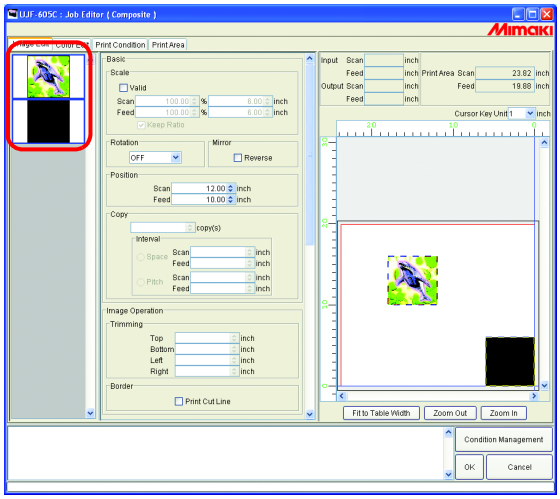
If the setting is made on the “Job Editor” as shown above, the printing is performed in the following order. (After each “Prints image X” completed, the head and the media are returned once to the plotter origin.)



Functions specific to Composite

Overlapping the images (Alignment)

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



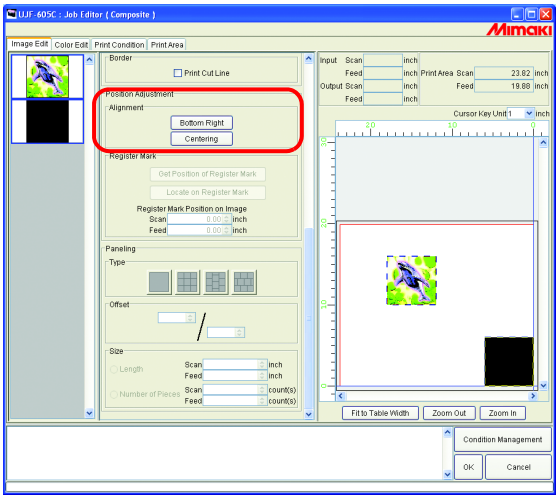
2 Click [Bottom Right] or [Centering] on "Alignment" of "Position Adjustment" to conform the positioning of multiple jobs.

[Bottom Right]

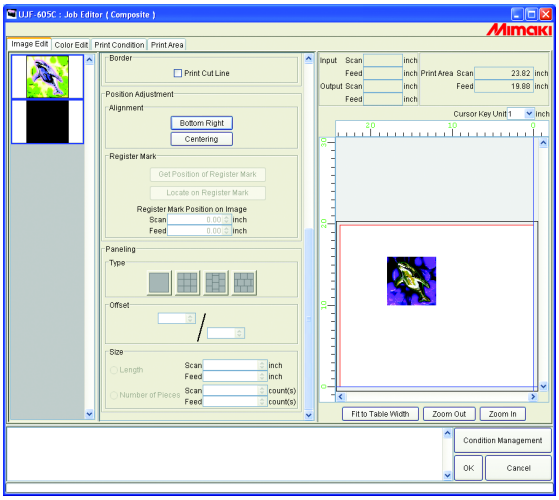
To the bottom right of the first selected image, the bottom right of the other image is aligned and moved.

[Centering]

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



Execute [Centering] .



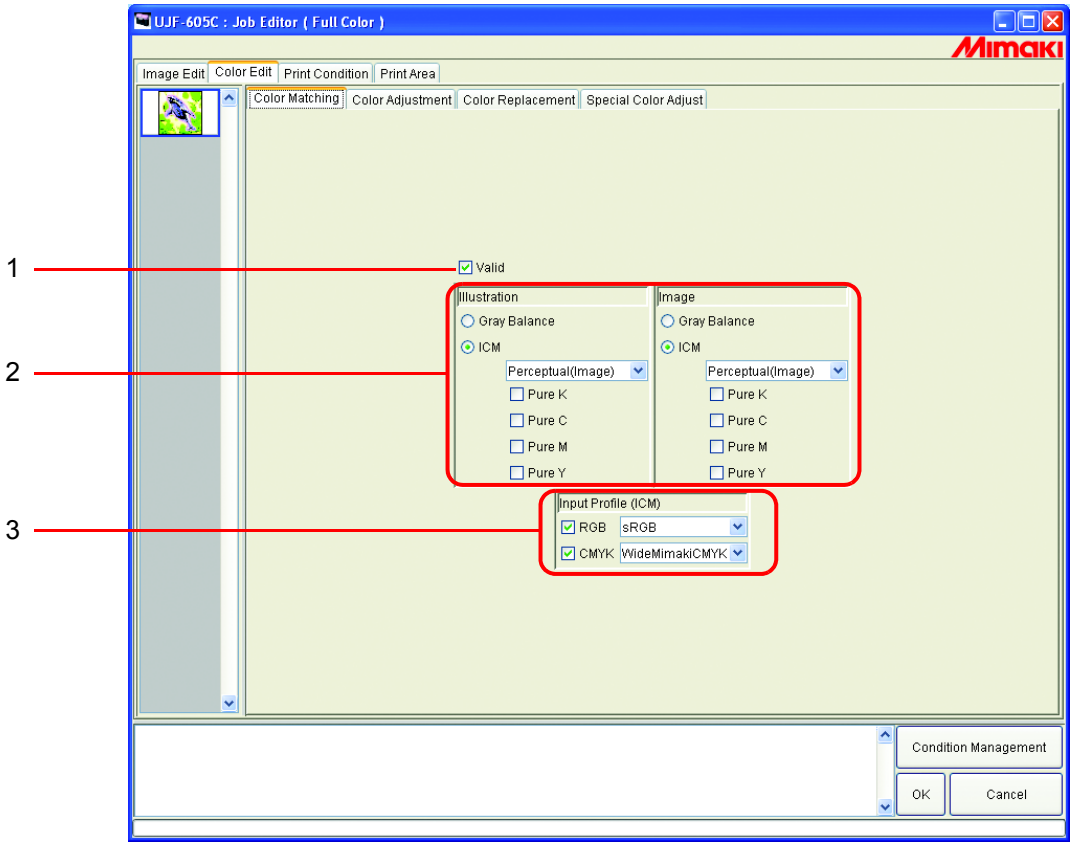
Color Edit

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 UJF-605C are used in this manual, the screens for the models other than UJF-605C may be used in this chapter. Read the printer model name as UJF-605C.
- 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.

Setting Color Matching



1. Valid

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

2. 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.

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.

3. Input Profile (ICM)

Select an Input Profile for RGB data and CMYK data individually.

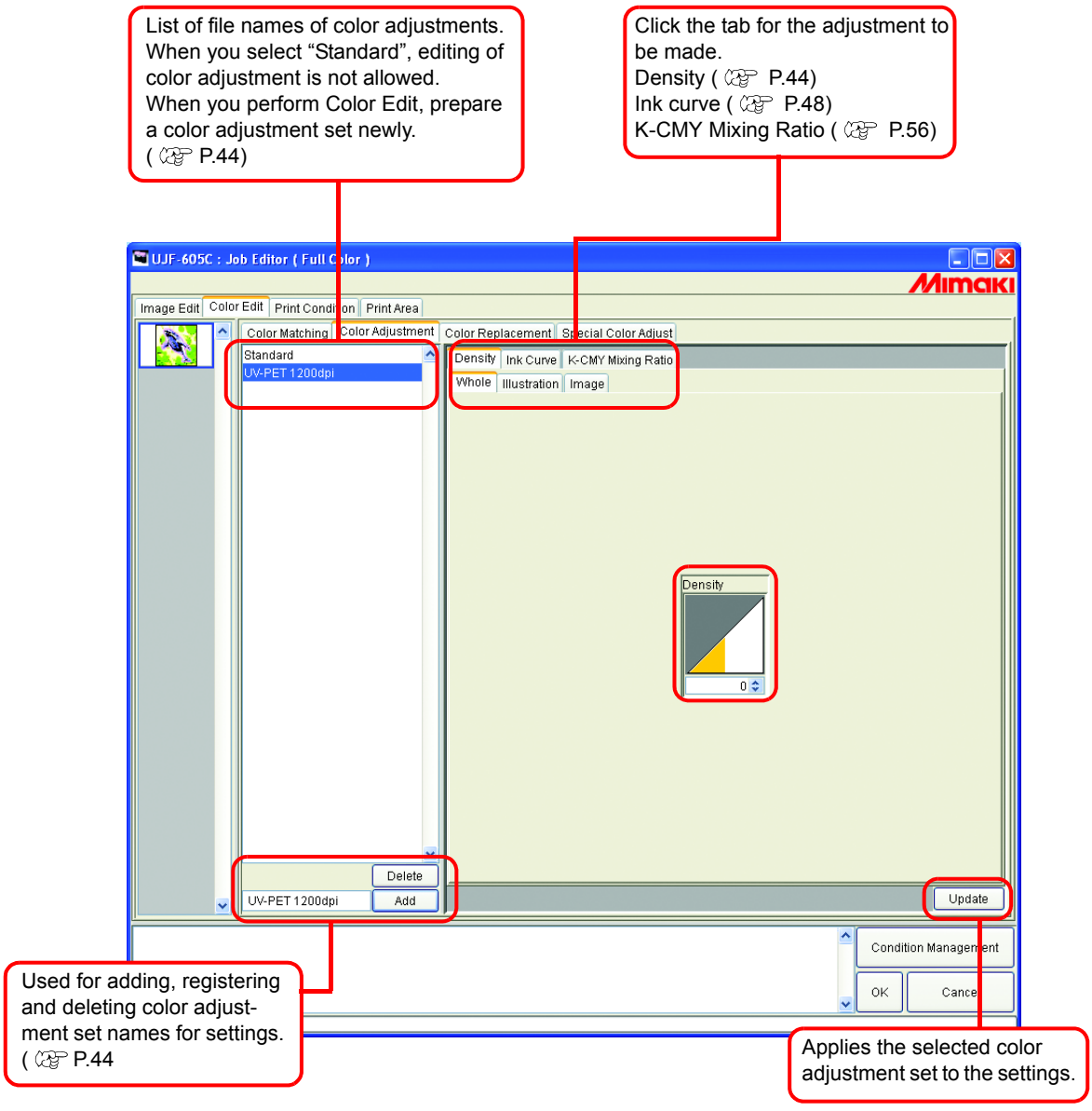
The profile is Gray balance mode when the check box is unchecked.

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

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

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

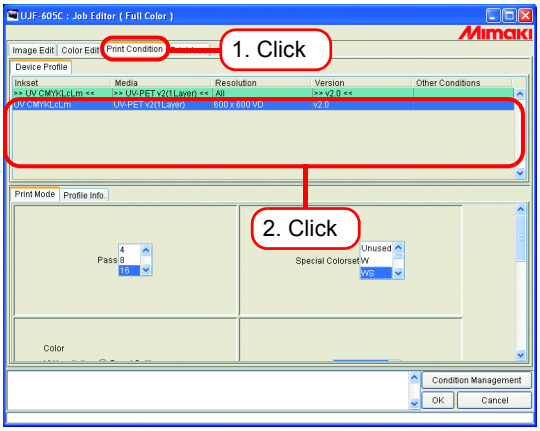


Preparing a Color Adjustment Set

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.

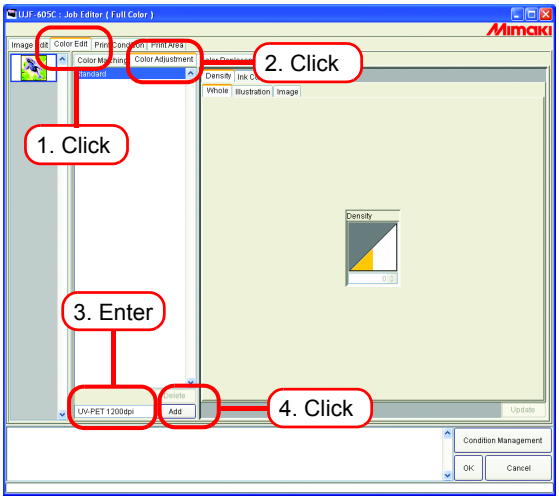
> NOTE ! Make color adjustment set for each Device Profile.
> To Print by Using Color Adjustment Set, select the Device Profile that specified with the Color Adjustment Set is Prepared.



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.



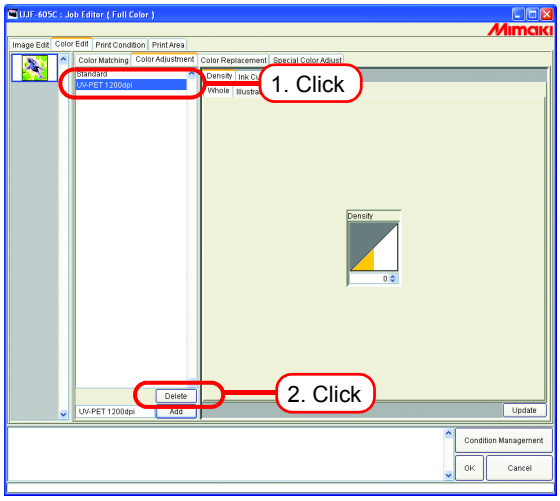
- When making new Color Adjustment Set, select “Standard” before click Add .
- When registering anew by editing registered color adjustment set, select and rename them to click Add .

Deletes Color Adjustment Sets

Click a Color Adjustment Set to set.

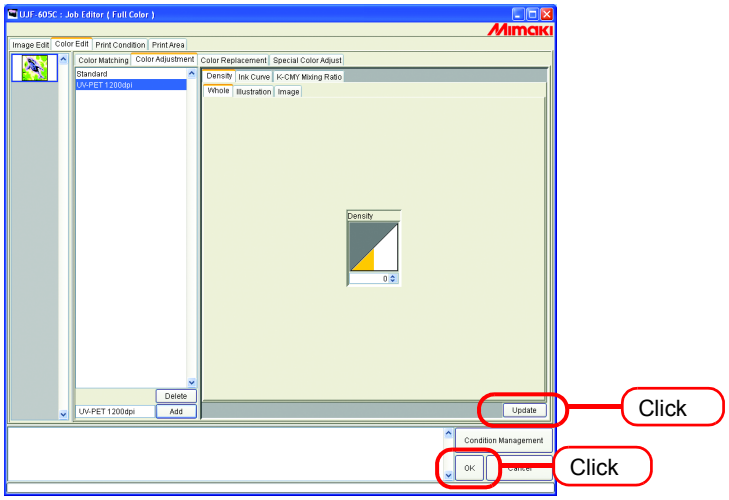
Click Delete to delete the selected color adjustment set.

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”.

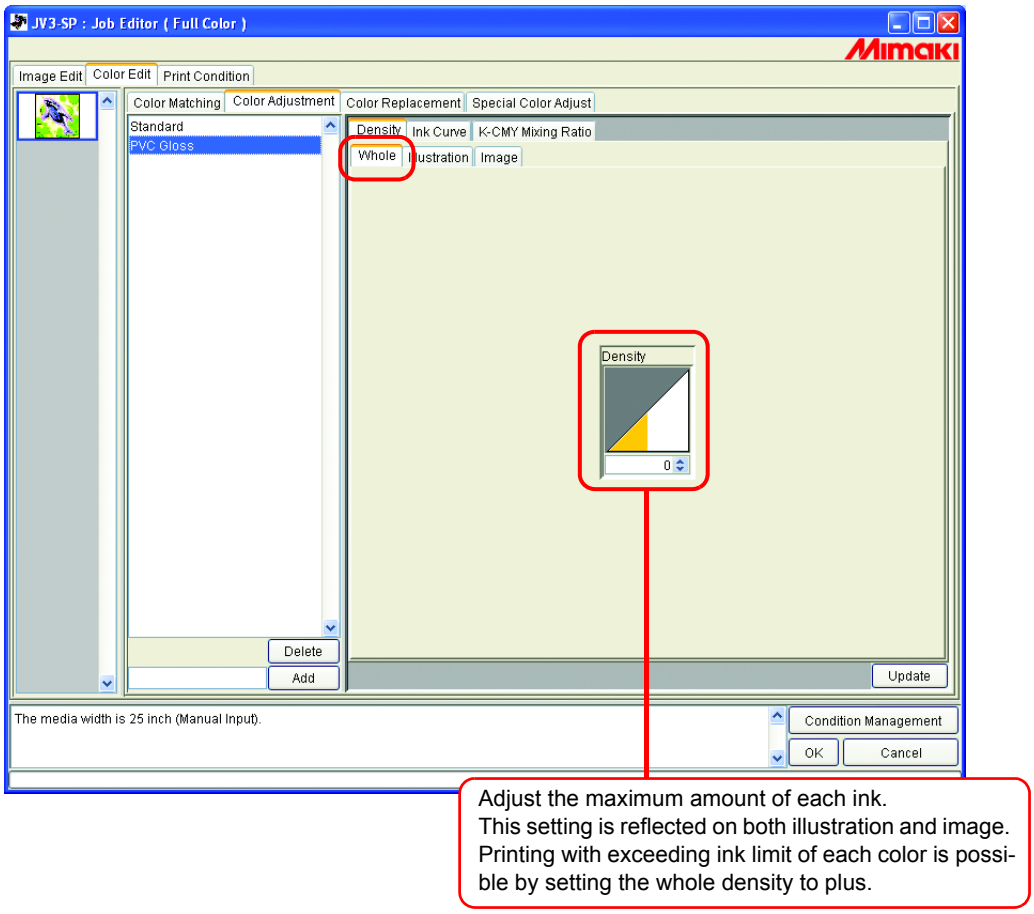


Adjusting Ink Density

Adjusting All Ink Densities

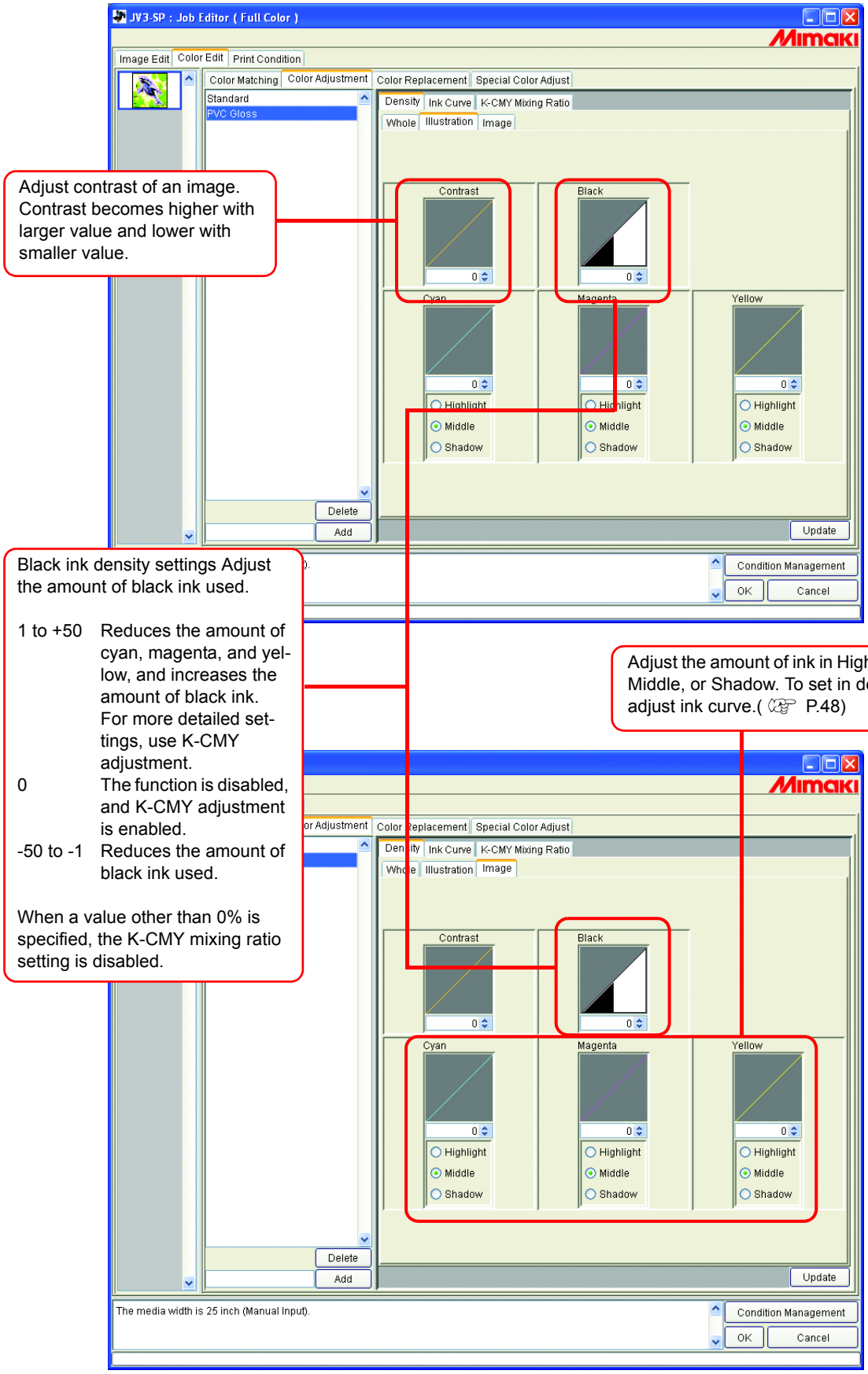
Adjust the maximum amount of each ink.

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.



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.

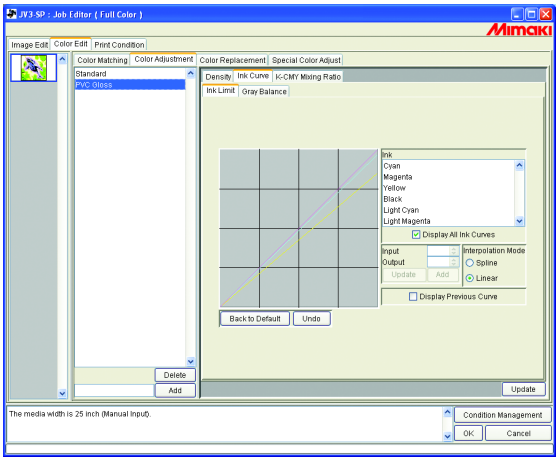
Version 1.0 and 2.0 device profiles

Ink Limit : Adjust ink density to all the colors.

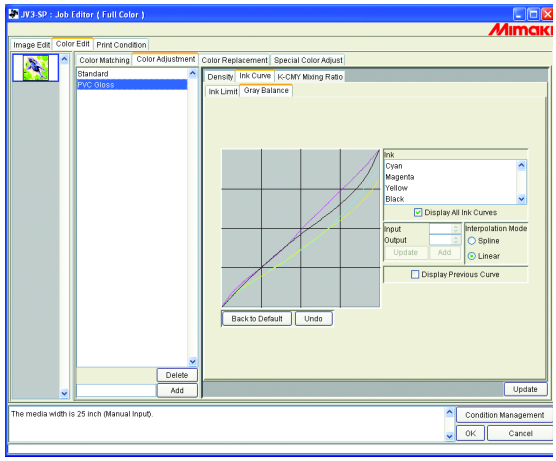
Gray Balance : Adjust ink density using only four colors of Black, Cyan, Magenta, and Yellow. Gray Balance is only available in Version 2.0.

> **NOTE!** “Gray balance” is valid only when you have selected gray balance on the “Color matching” menu (☞P.41).
> 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



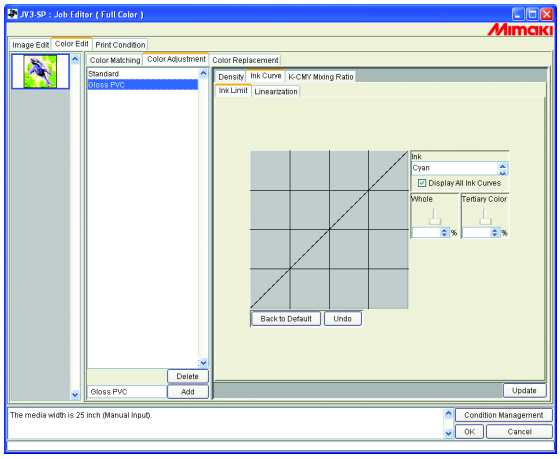
Refer to “Adjusting Ink Curves” (☞P.50) for how to adjust ink curves.

Version 3.0 device profile

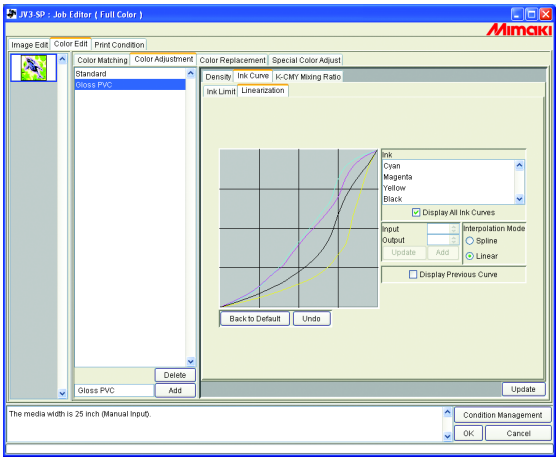
Ink limit: Sets the maximum density of the ink.

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.50) for how to adjust linearization curve.

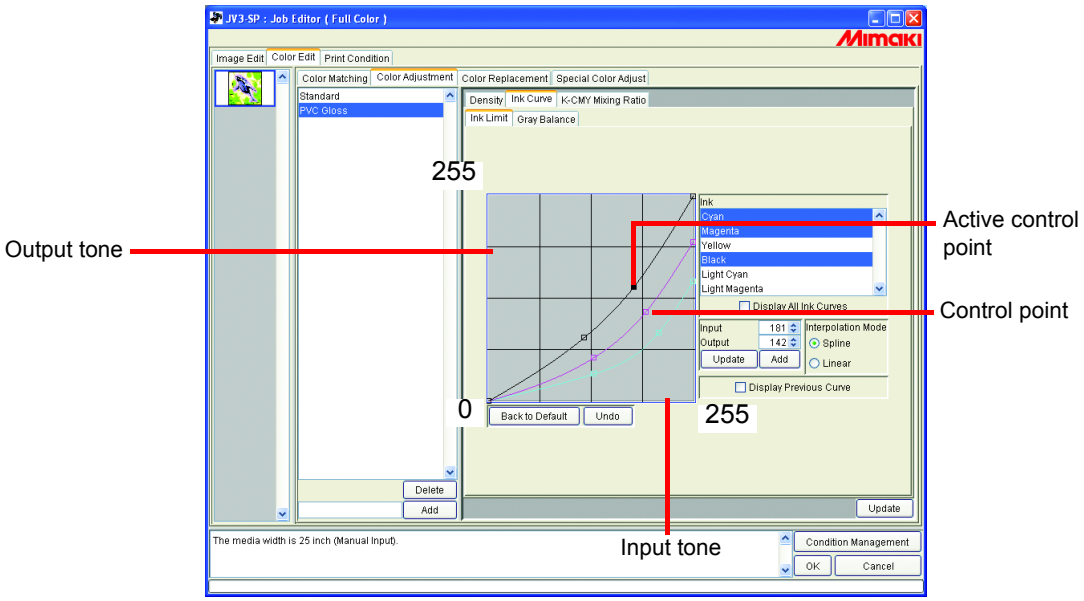
Adjusting Ink Curves

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

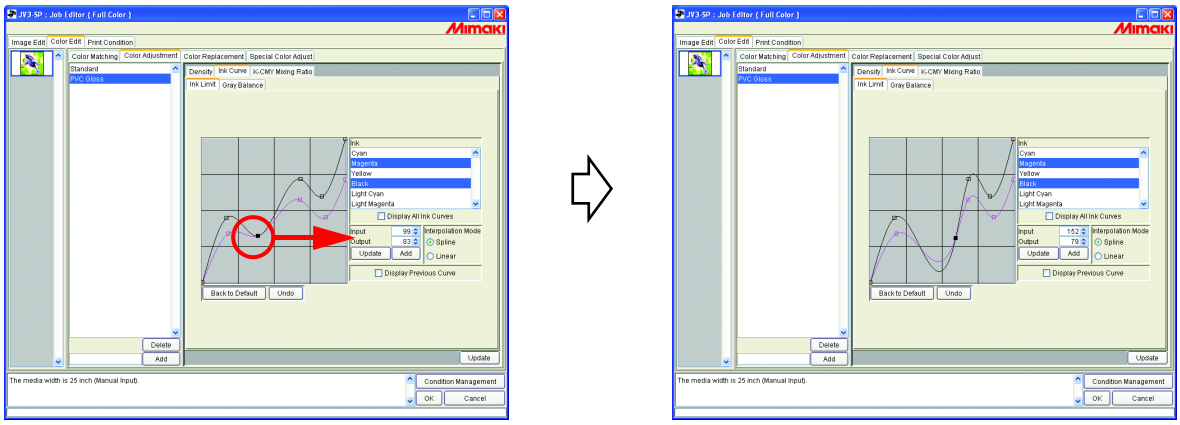
The horizontal-axis indicates the ink density before adjustment (input tone) and the vertical-axis indicates the ink density after adjustment (output tone). Both axes indicate in a range from 0 to 255.

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

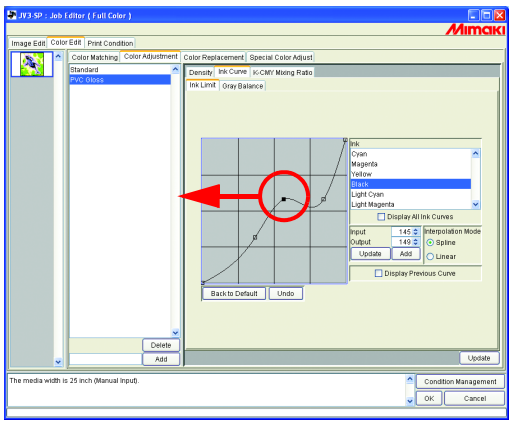
Click an adjusting point to make a control point. Up to 30 points can be added. A selected control point changes from a white rectangle into an ink color one.

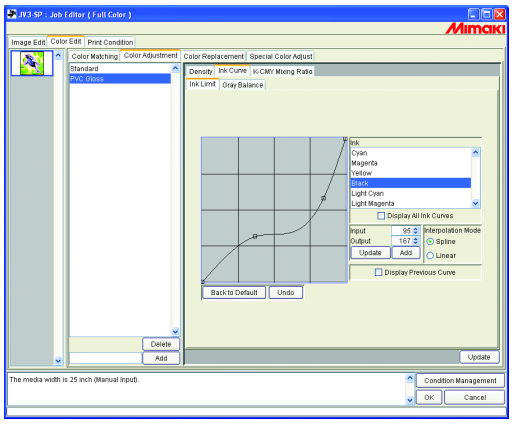


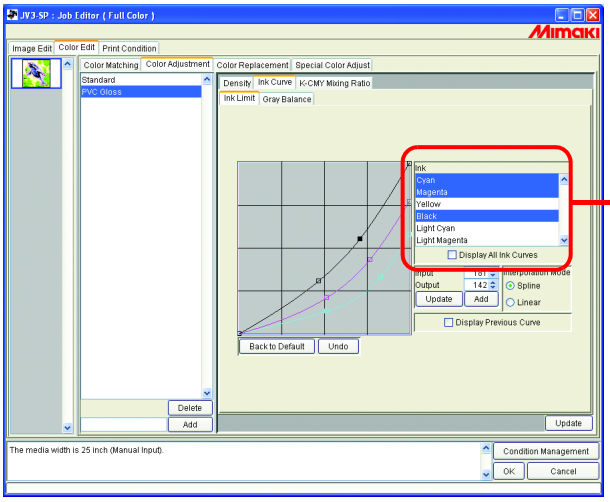
When changing several ink curves at a time, drag a point where the ink curves of several colors are intersecting or adjoining each other. Or push Arrow key to move that control point.



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



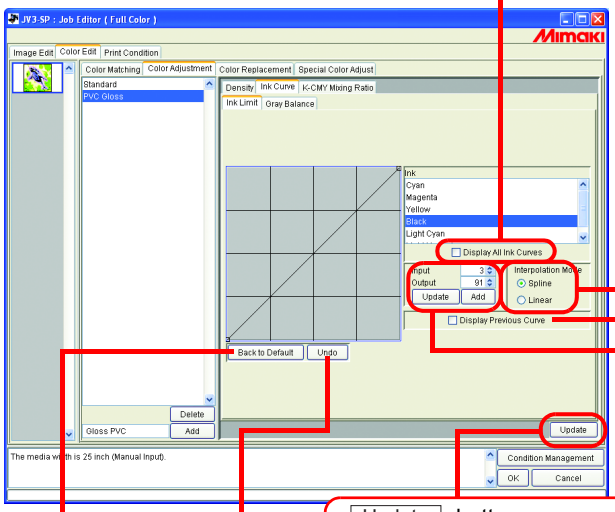




Select ink list:
Display the inks selected from the ink set in the “Print Condition” window.
To select more than one ink, click ink names while pressing the [Ctrl] key.
To deselect, click the ink name again.

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.



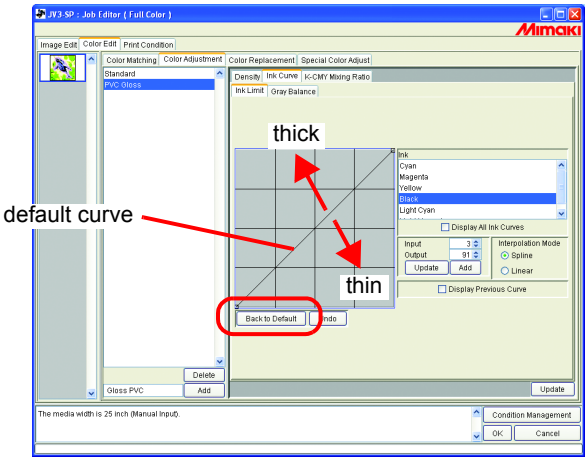
Display Previous Curve:
Display the previous ink curve with a broken line.
If [Update] is clicked, the previous ink curve is disappear.

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.

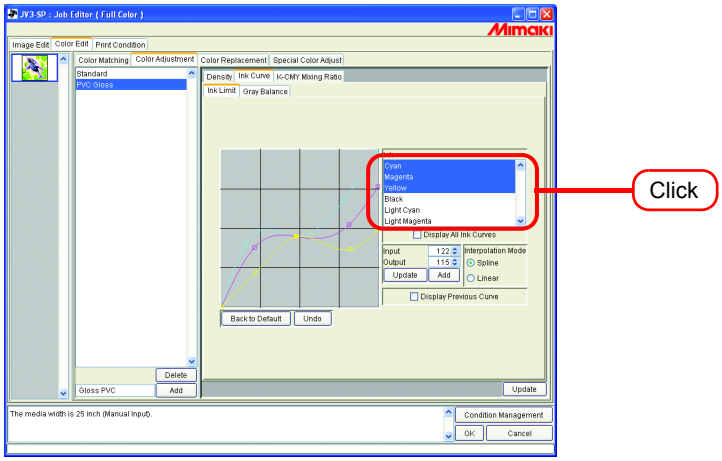
Use the following keys.

- 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.

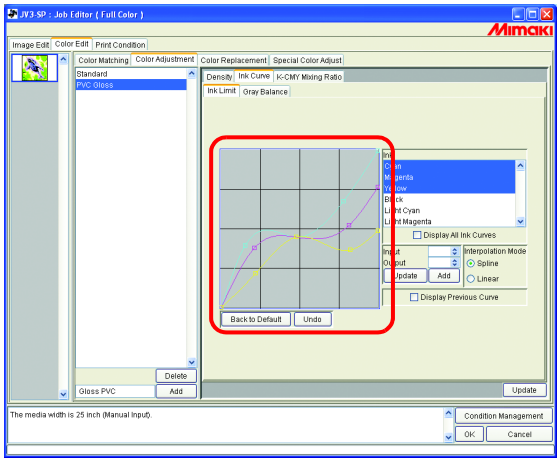
In this section, explains how to adjust several ink curves.

1 Select the adjustment ink On “Ink” list.



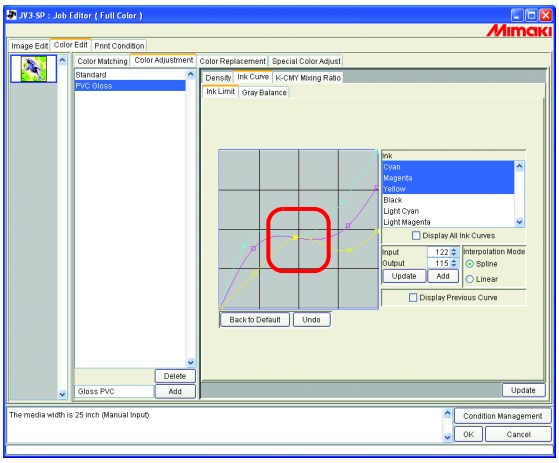
2 Click the ink curve area with the mouse.

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



3 Select control points by Z or X key.

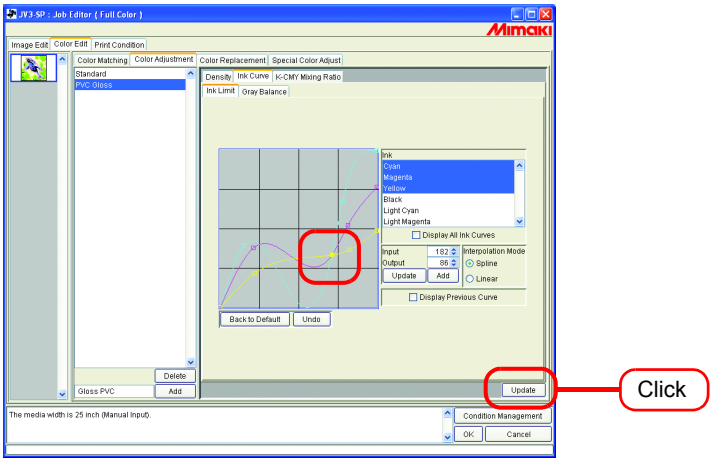
> **NOTE!** When the control points can not be selected even by pushing keys, check the following.
> - Is the ink curve area selected?



4 Adjust a control point by Arrow key.

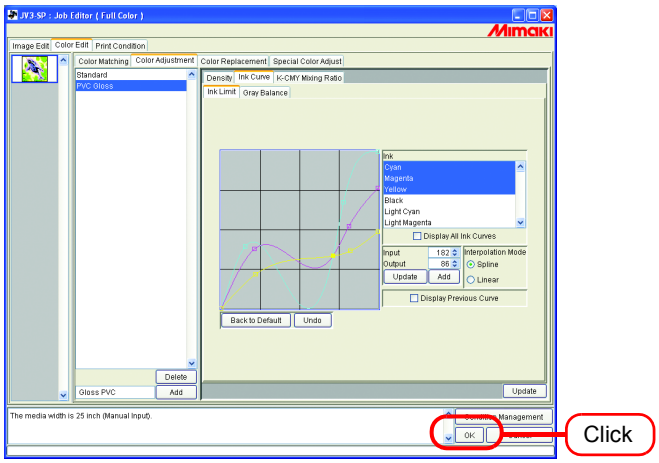
Click Update .

Update the ink curve.



5 Click OK .

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



K-CMY Mixing Ratio

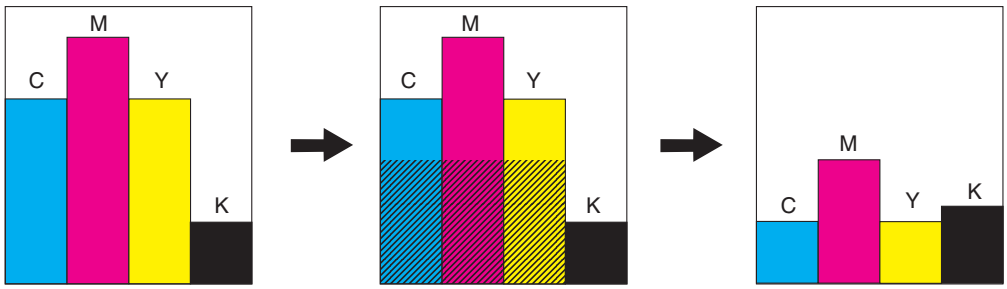
Replaces parts expressed as black with cyan, magenta, and yellow (mixed black) with single color black.

Adjustment is possible for each illustration and image.

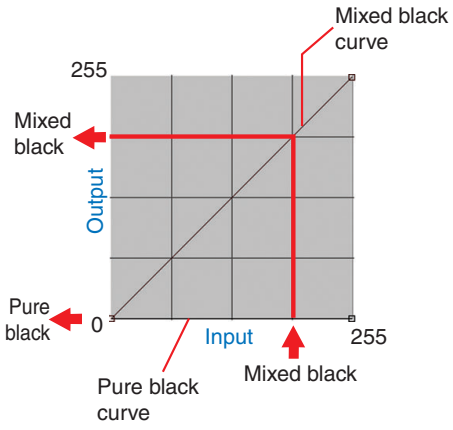
It is effective in the following cases.

1) For reducing the ink density in RGB images

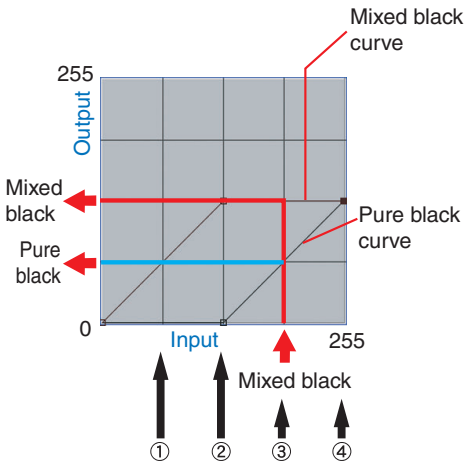
2) For printing RGB images with sharp black



Unadjusted



Adjusted



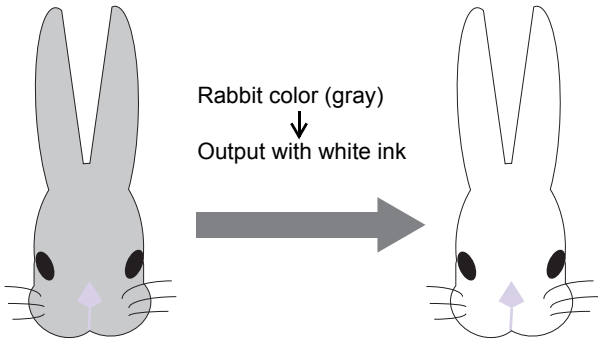
The adjustment method is the same as for ink curve.

Example:

	Input color				Mixed black	Output color				Explanation
	C	M	Y	K		C	M	Y	K	
(1)	64	85	64	5	64	64	85	64	5	No change
(2)	128	150	160	5	128	128	150	160	5	No change
(3)	200	191	200	5	191	137	128	137	69	64 is subtracted from each of CMY, and 64 is added to K.
(4)	255	255	255	5	255	128	128	128	133	128 is subtracted from each of CMY, and 128 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 UJF-605C are used in this manual, the screens for the models other than UJF-605C may be used in this chapter. Read the printer model name as UJF-605C.

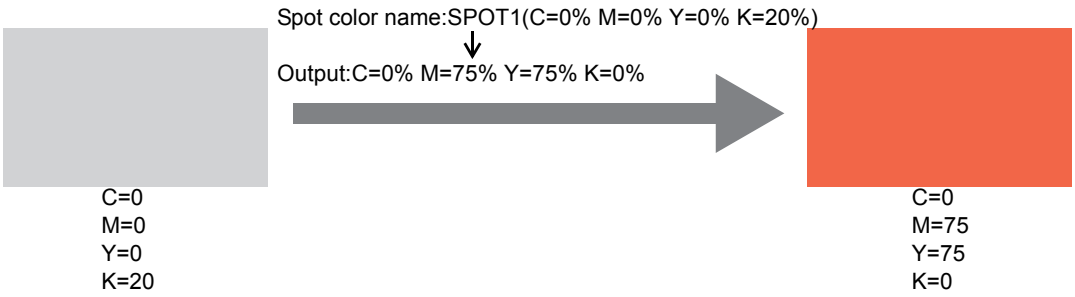
Color Replacement method

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.

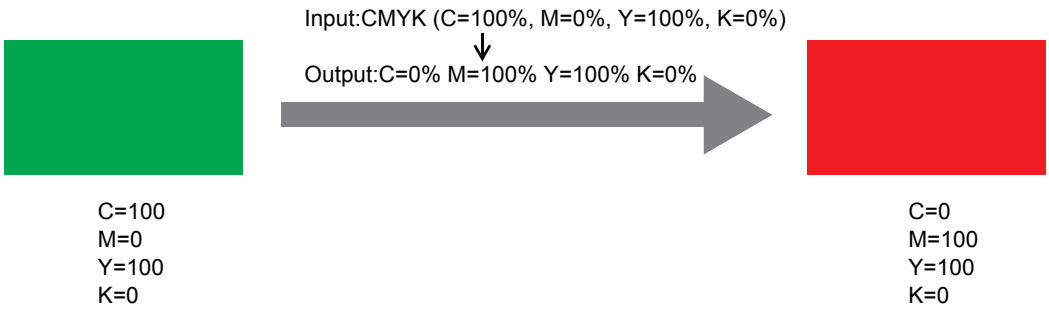
Spot colors must be named. In Raster Link Pro II, an ink color and density is specified for these names.



Color Replacement of CMYK

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

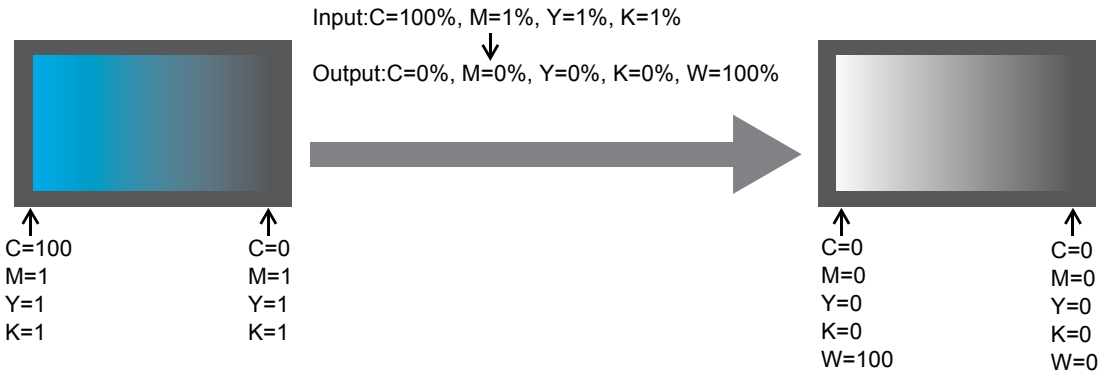
When the same color is being used for a different vector object in the image, that color will also be changed.



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

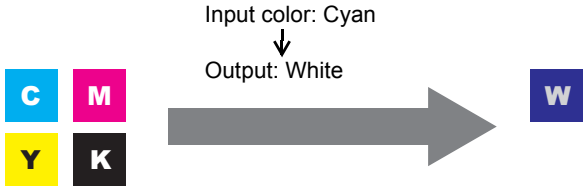
Print an image in CMYK color mode with specified inks for any one color of CMYK.

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.



Combination with Auto Special Color Composition

Color Replacement and Auto Special Color Composition can be specified at the same time.

Auto Special Color Composition: Special Color Print Area is “Valid Pixel”

When specifying Special Color for Color Replacement, the density of Color Replacement has a priority.

e.g.)

Color Replacement	: Spot color = Special Color 20%	Print is performed with Spot color = Special Color 20%.
Auto Special Color Composition	: Special color ink density = 50%	

Auto Special Color Composition: Special Color Print Area is “Whole Image”

When specifying Special Color for Color Replacement, the density of Auto Special Color Composition is added to Special color ink density of Color Replacement.

e.g.)

Color Replacement	: Spot color = Special Color 20%	Print is performed with Spot color = Special Color 70%.
Auto Special Color Composition	: Special color ink density = 50%	

Auto Special Color Composition: Special Color Ink Density is 0%

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

NOTE ! On the “Special Color Adjust” menu, when the special color ink limit curve is adjusted on the “Ink Limit” menu, the value specified for special color density may not be achieved. (☞ P.92)

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

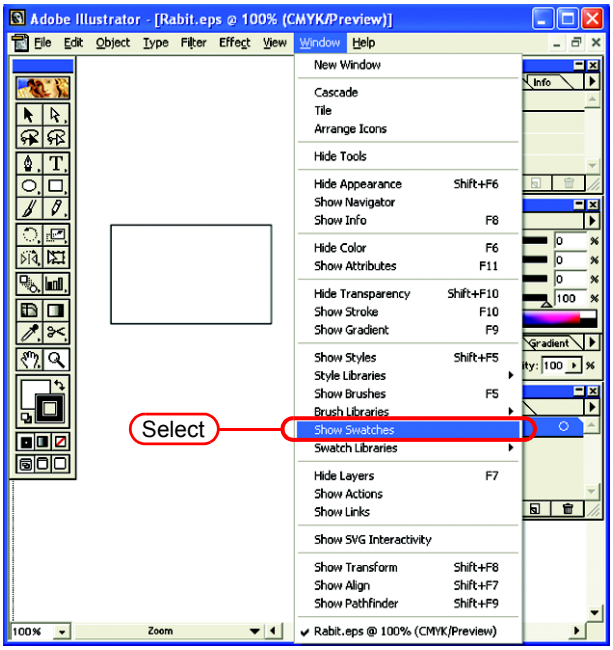
Creating spot colors

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

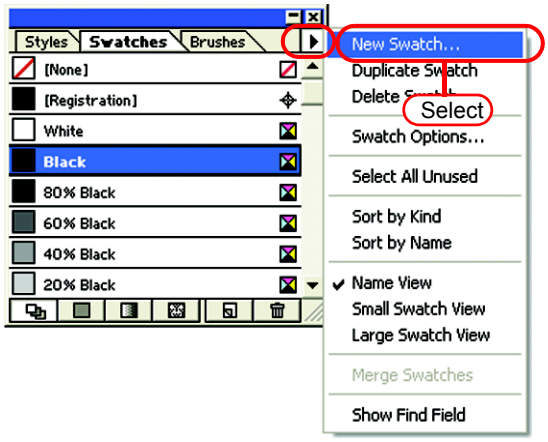
For details, refer to the Adobe Illustrator manual.

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.

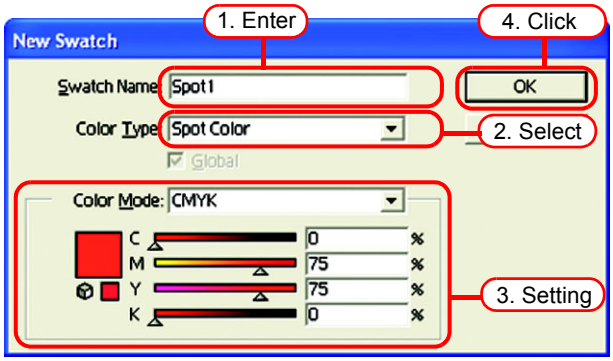


2 Click the ▶ and select “New Swatch” from the menu.
A new swatch window appears.



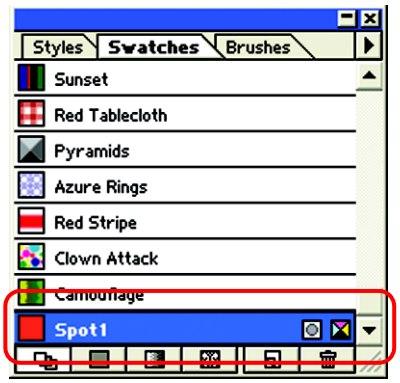
3 Enter a name in “Swatch Name”.
In “Color Type”, select “Spot Color”.
In Adobe Illustrator CS, select “Special”.

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

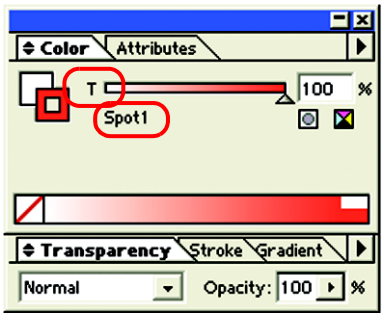


4 A new swatch is created.

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



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

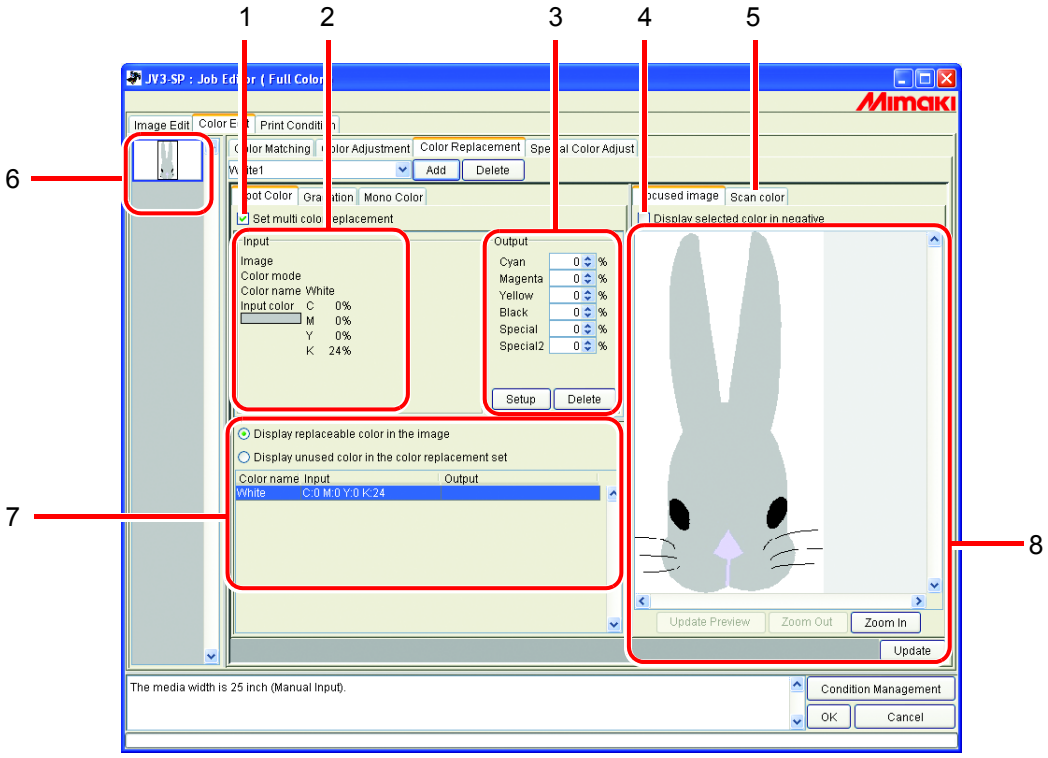


Color Replacement screen

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.

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. 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.

7. Replacement information list

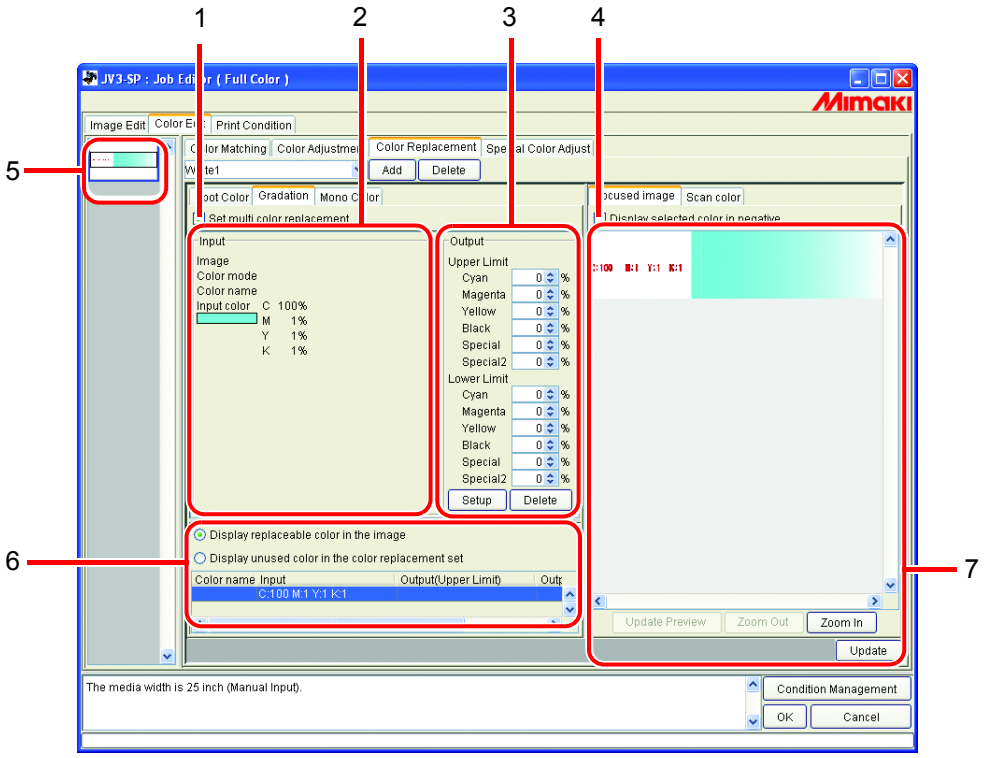
Shows the ink information for the color before replacement and after replacement. The information to display is selected with the radio buttons at the top of the list.

8. 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, colors that are currently editable 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

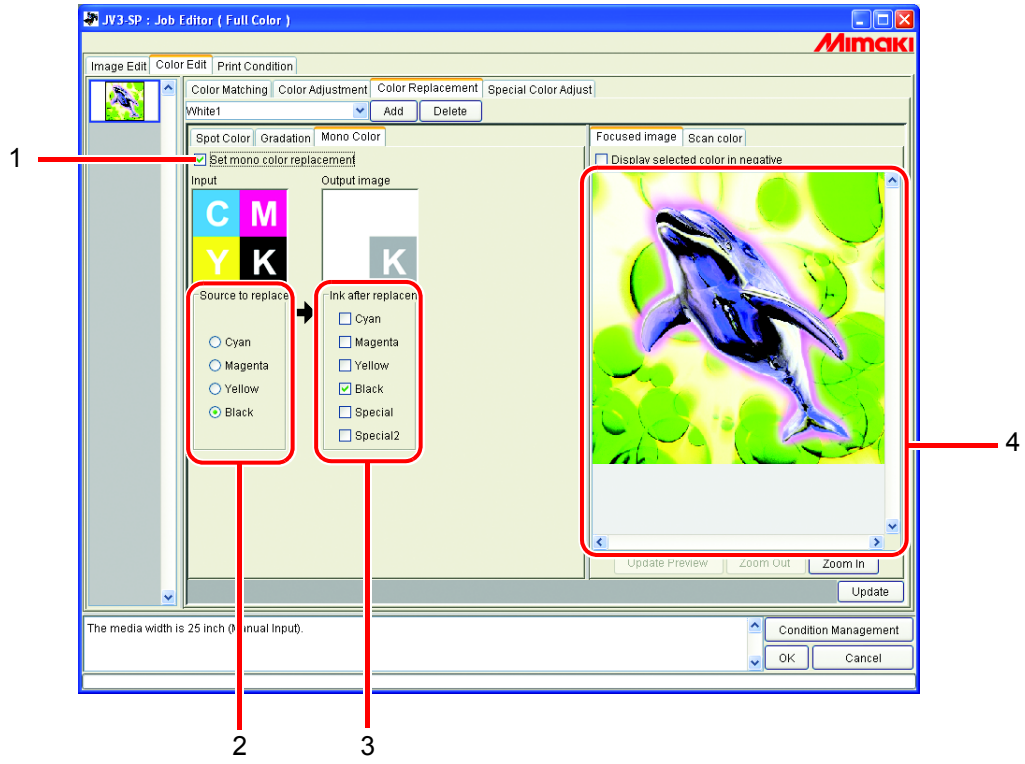
Shows the ink information for the color before replacement and after replacement. The information to display is selected with the radio buttons at the top of the list.

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

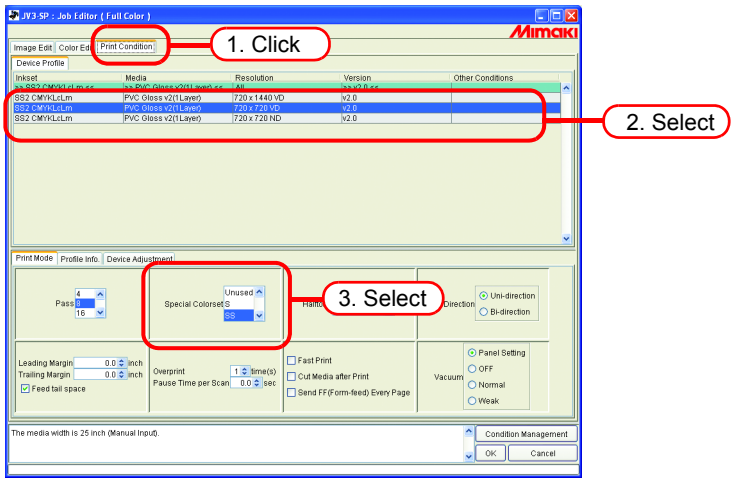
Specifies the color of the ink to use after replacement.

4. Preview screen

Shows a preview of the image.

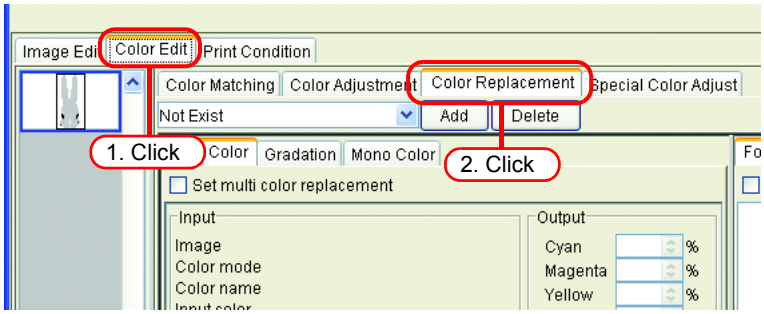
Create a Color Replacement set

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.96 for “Special Colorset”.



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

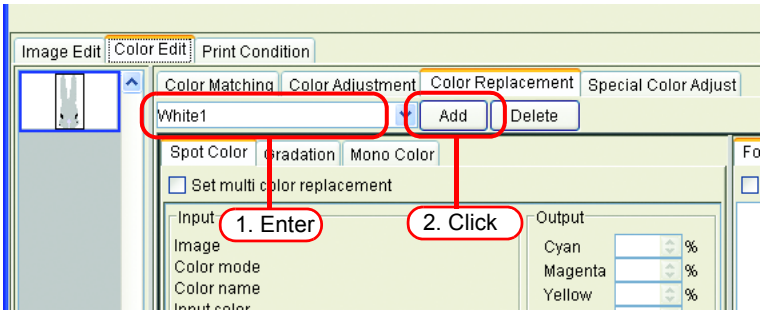
2 Click the [Color Edit] menu.
Click the [Color Replacement] menu.



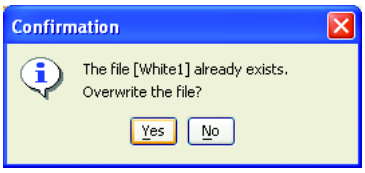
3 Enter a name in the Color Replacement set name field.

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

Click [Add].

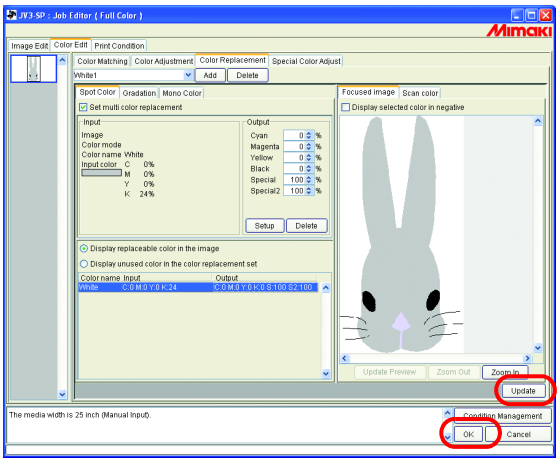


If a Color Replacement set with the same name already exists, an overwrite confirmation message is displayed.



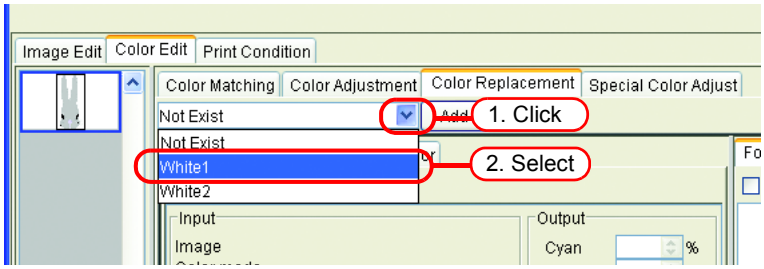
Update a Color Replacement Set

To update the Replacement information, click [Update] or [OK], and finish the "Job Editor".



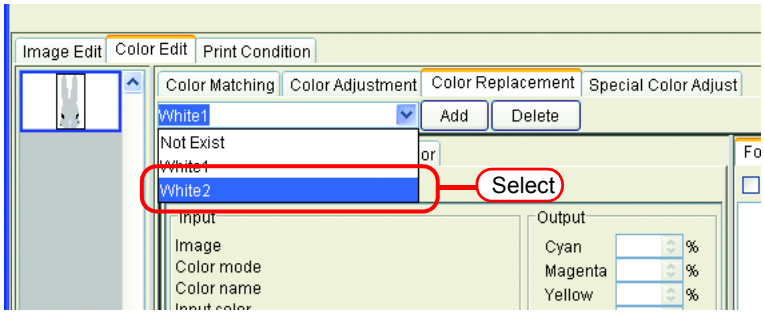
Select a Color Replacement set

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

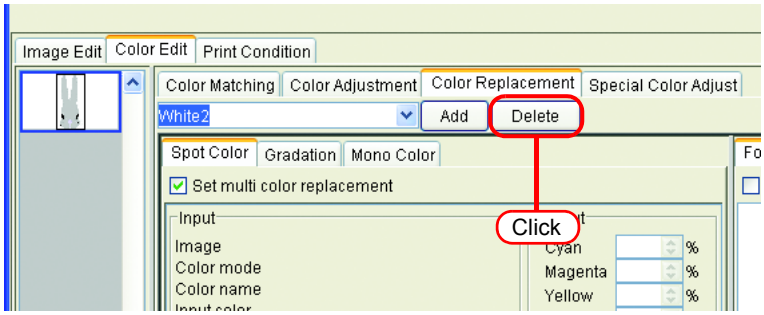


Delete Color Replacement set

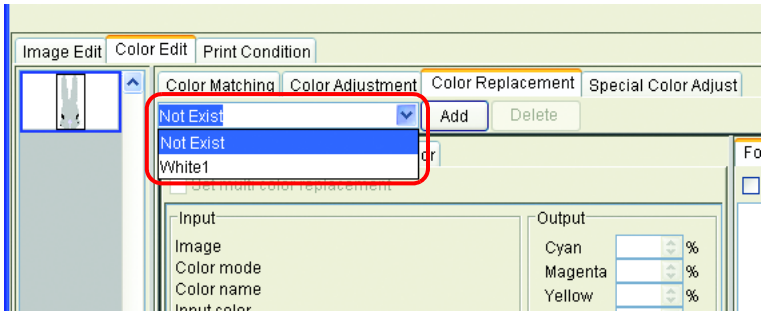
1 Open the “Job Editor” and open the [Color Replacement] menu.
Select a Color Replacement set to delete.



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.

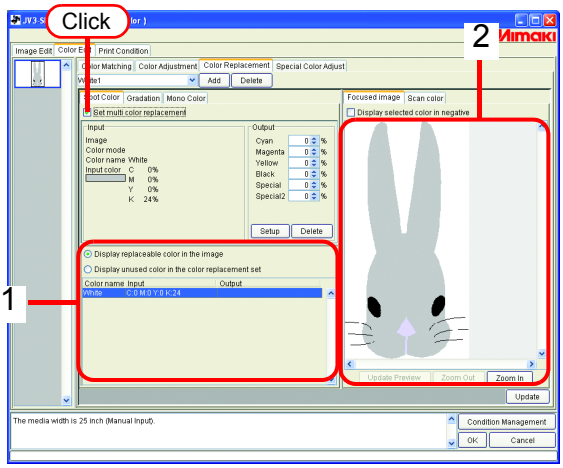
To replace multiple colors, check “Set multi color replacement”.

(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

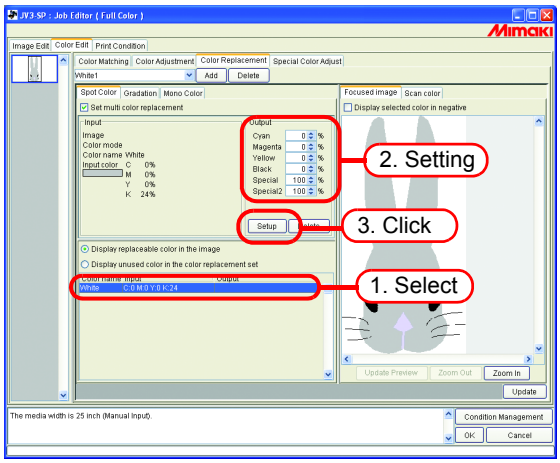
There are two methods for unselecting the color.

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

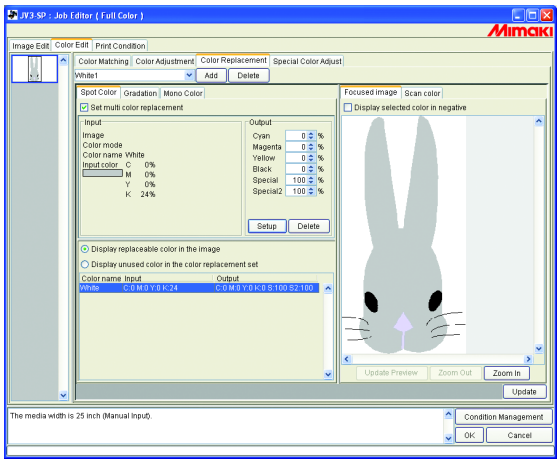
(2) Place the cursor over the preview, and right click.

Create ink information after replacement

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.

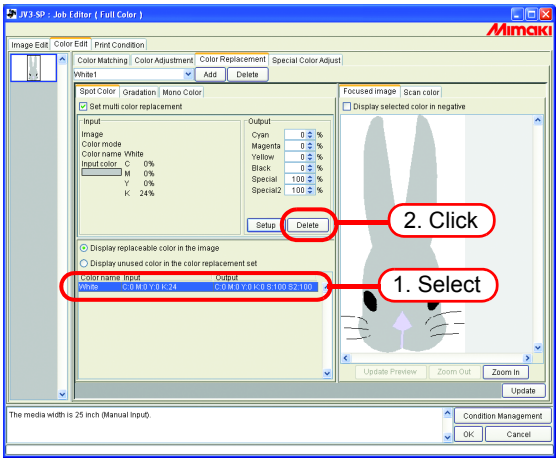


Delete ink information after replacement

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

Click [Delete] on the “Output” information screen.

The Color Replacement information is deleted.



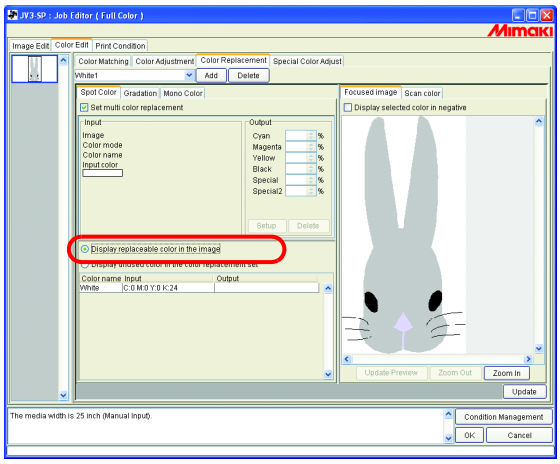
Switch displays

Replacement information list

The Replacement information list can be changed as follows.

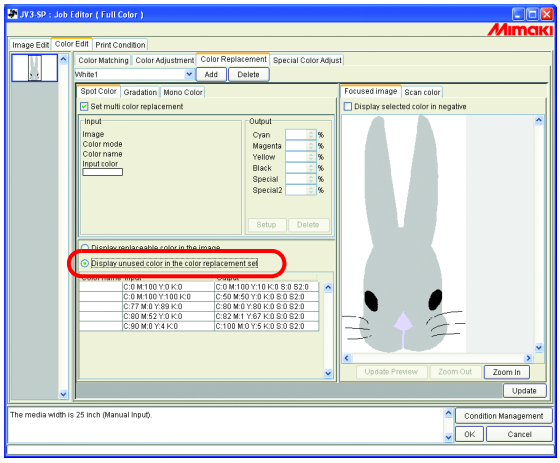
Display replaceable color in the image

Shows only the colors used in the image.



Display unused color in the color replacement set

Shows the Color Replacement information in the Color Replacement set, with colors that are not used in the image.

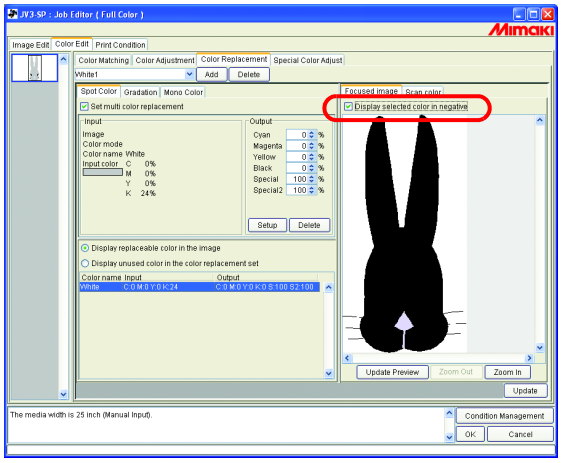


Preview

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.



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.

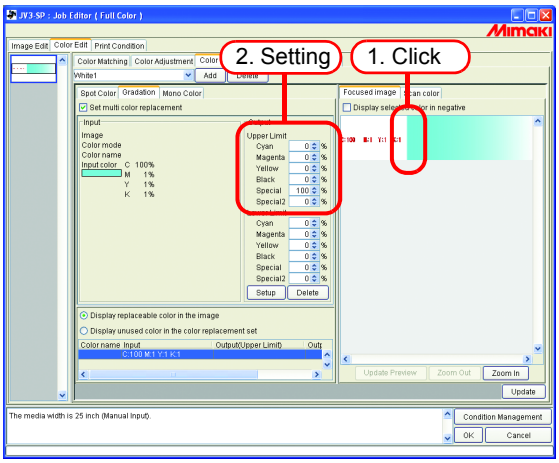
Gradation replacement settings

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.

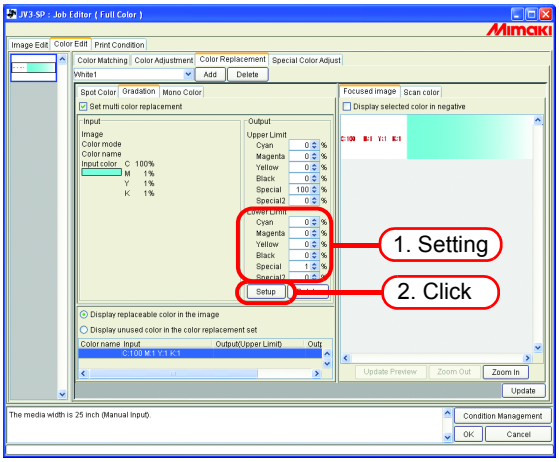
The selected color in the Replacement information list is displayed in negative.

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

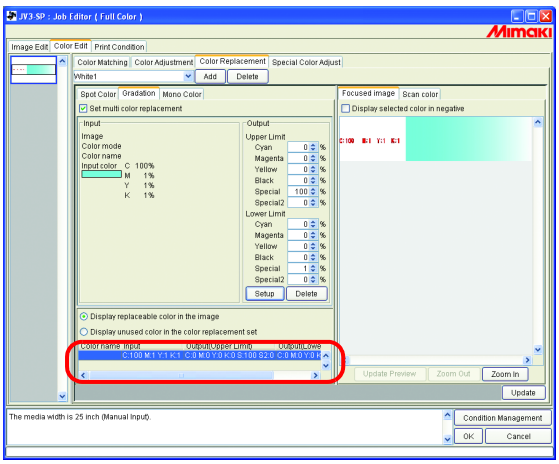


2 Next, specify the minimum density area of the ink density after replacement.

Click [Setup].



3 The Color Replacement information is set.



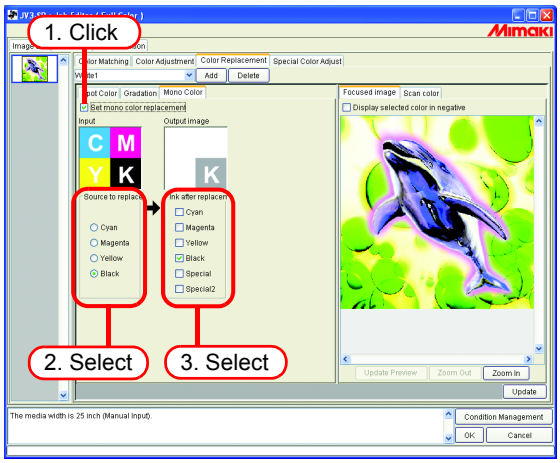
Mono Color Replacement

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)

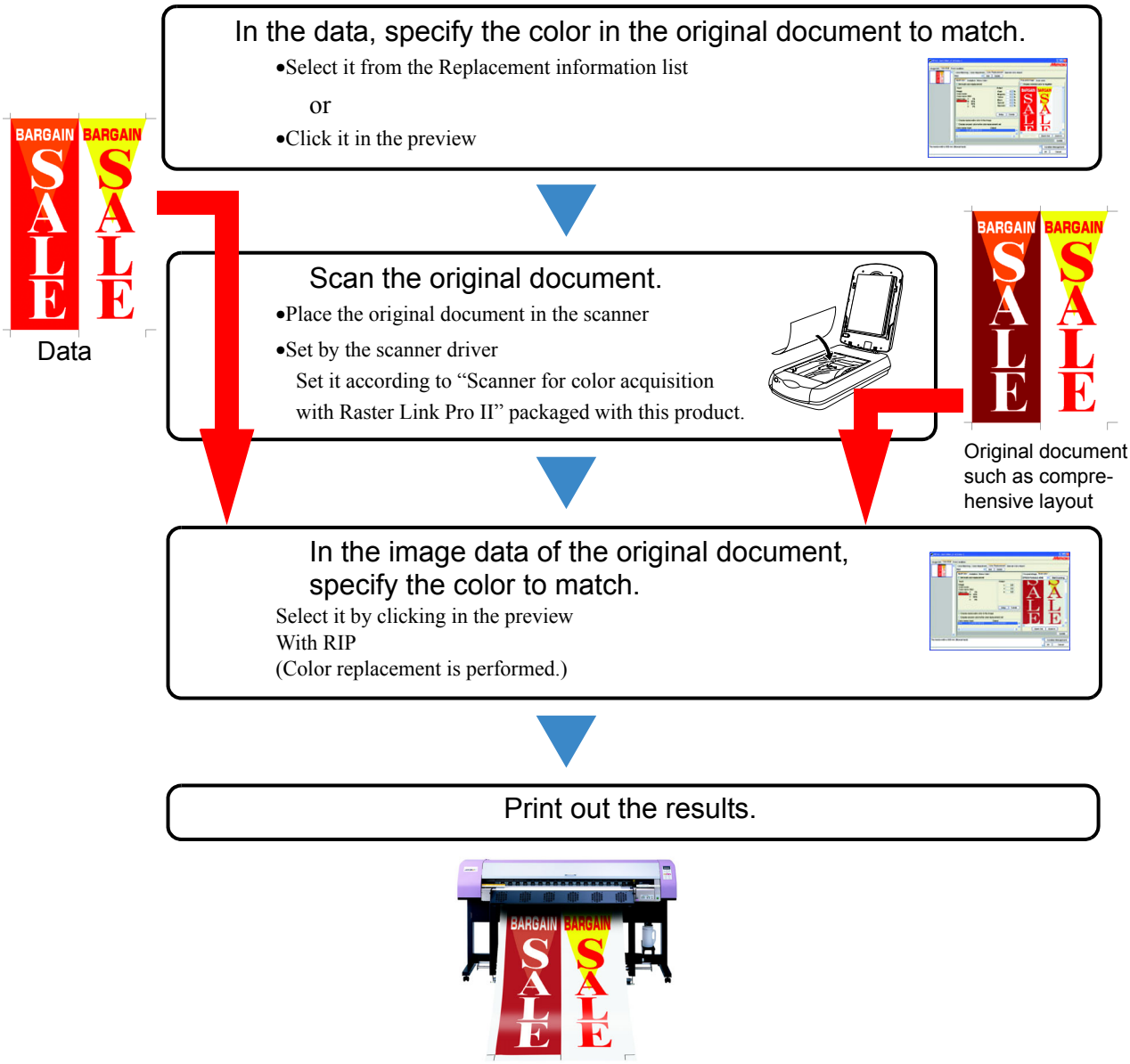
The scanner can be used for specifying the color after Color Replacement. For the types of scanner that can be used, refer to “Scanner for color acquisition with Raster Link Pro II” packaged with this product.

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.

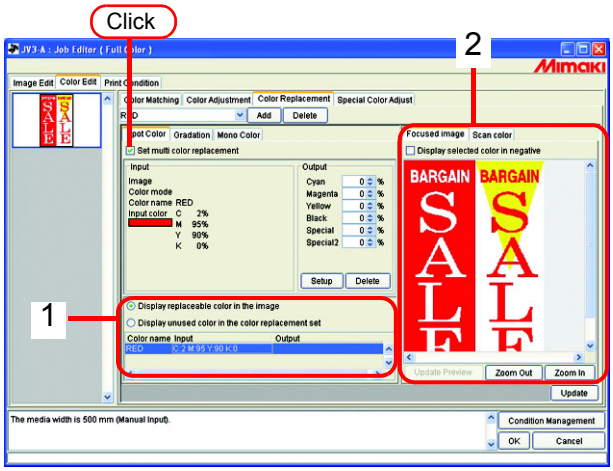


Color acquisition

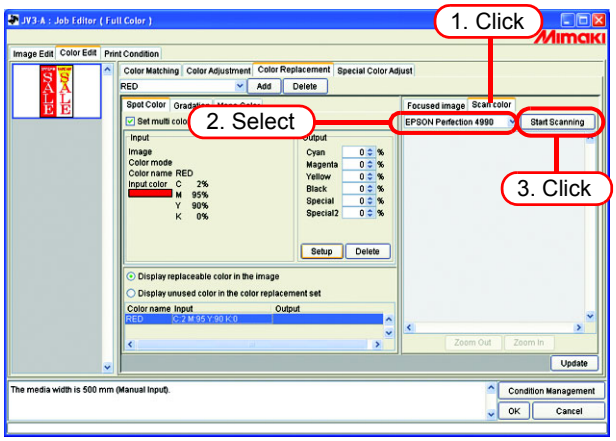
Color acquisition operates as one function of Spot Color Replacement. With Spot Color Replacement, a value for ink density after the source to replacement is replaced is specified, but with this function, instead of the ink density setting after replacement, the color information scanned with the scanner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

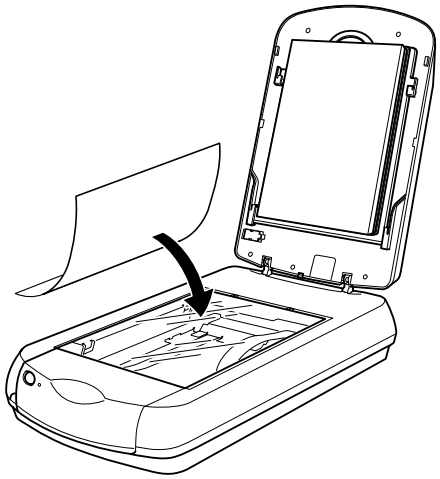


3 Place the original document in the scanner and scan it.

Set the scanner driver according to “Scanner for color acquisition with Raster Link Pro II” packaged with this product, 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 “Scanner for color acquisition with Raster Link Pro II” packaged with this product.
- Refer to the manual packaged with the scanner for how to operate the scanner.

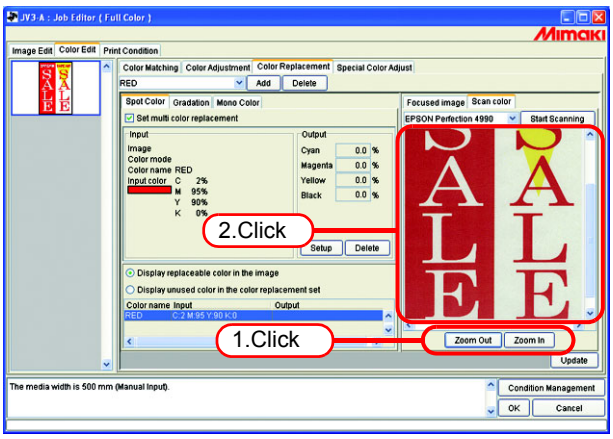


4 The scanned image data appears in the preview.

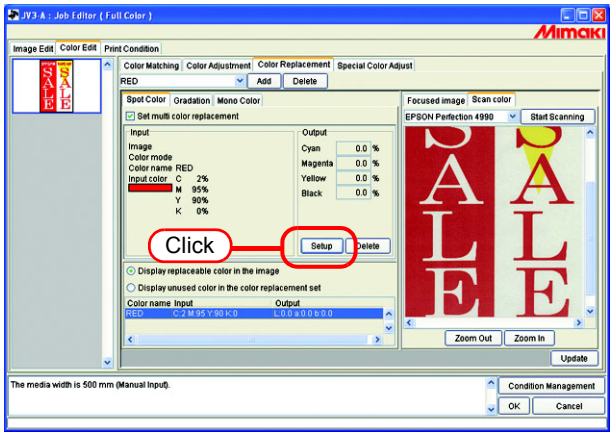
Use [Zoom In] and [Zoom Out] to display the color area to acquire, and click the color.

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

Click a part that the color is uniform.



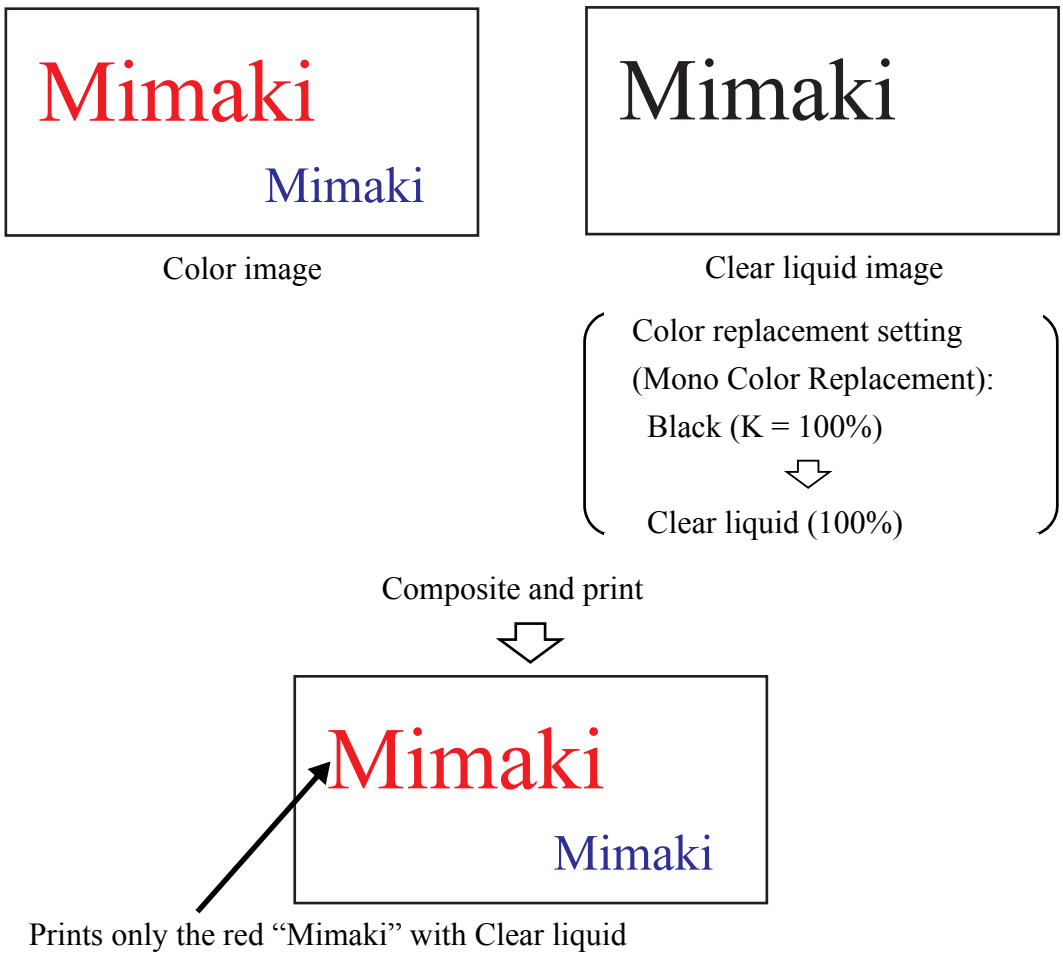
5 Click [Setup] to set the color acquisition information.



Using clear liquid color replacement

Set clear liquid color replacement for a job with a clear liquid image, and composite and print the color image and clear liquid image jobs.

Example:



NOTE!

- To print the color image and clear liquid image in order, arrange the jobs in the thumbnail list in that sequence.
- Clear liquid images in composite jobs are printed with the UV irradiation method specified in the printing mode even when there is ink output besides clear liquid.

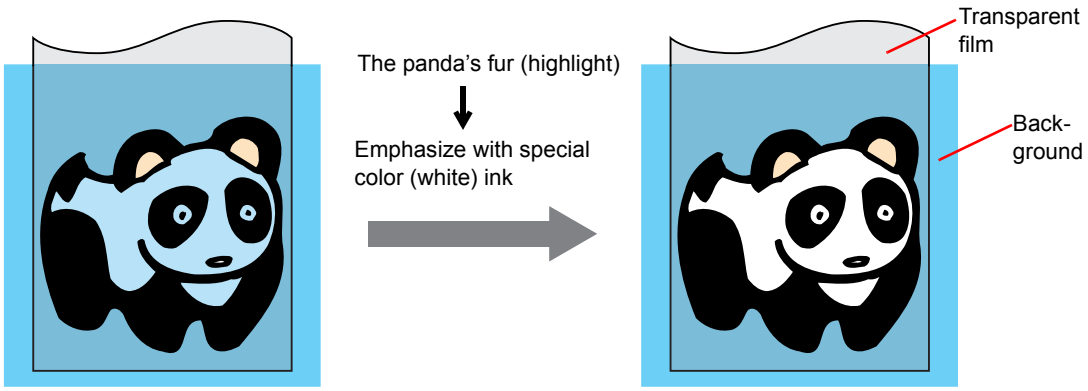
When printing clear liquid over color, the fixability of the clear liquid is improved by setting the UV irradiation of the color to low, and leaving it not fully consolidated. (☞ P.97)

Special Color adjustment

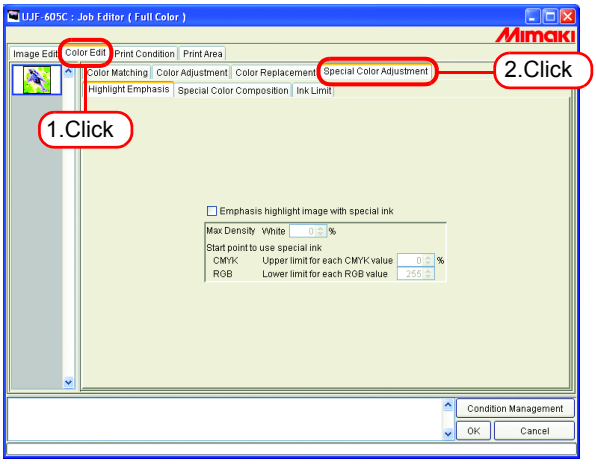
To perform special color adjustment, [Print Condition] - [Print Mode] - [Special Colorset] must be selected.

Emphasize highlights with special color

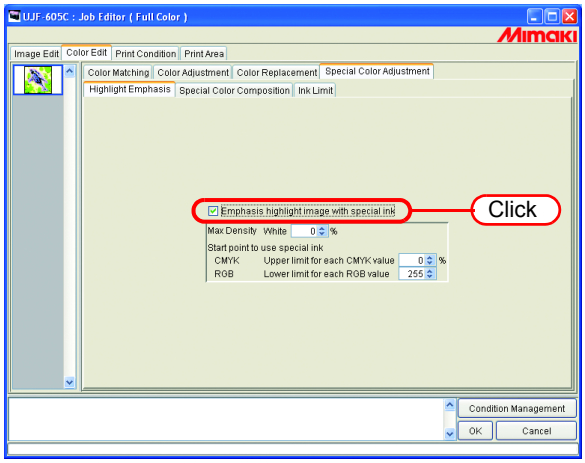
Image highlights can be emphasized with special color. This is effective for making highlights stand out when printing on transparent film.
Adjustment is possible for both CMYK images and RGB images.



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

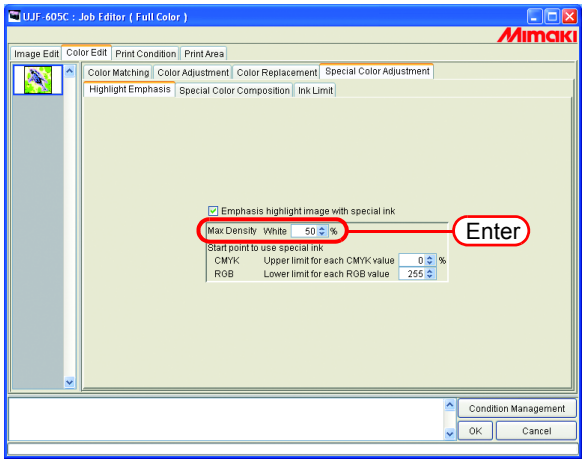


2 Check “Emphasis highlight image with special ink”.



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.

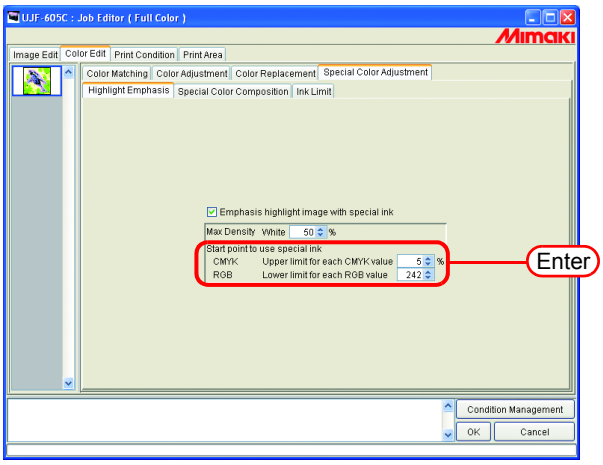


The maximum density specified here is the density of the location with the least amount of ink in the highlight area (i.e. pure white). The density of special color ink is calculated and adjusted automatically according to the amount of ink of the highlight area.

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.

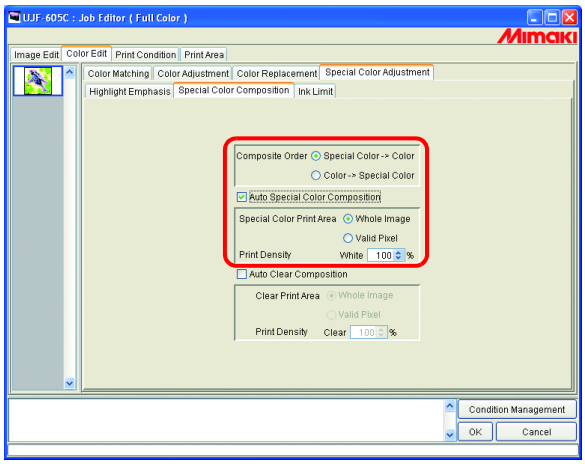


Automatically create a special color layer (Auto Special Color Composition)

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”

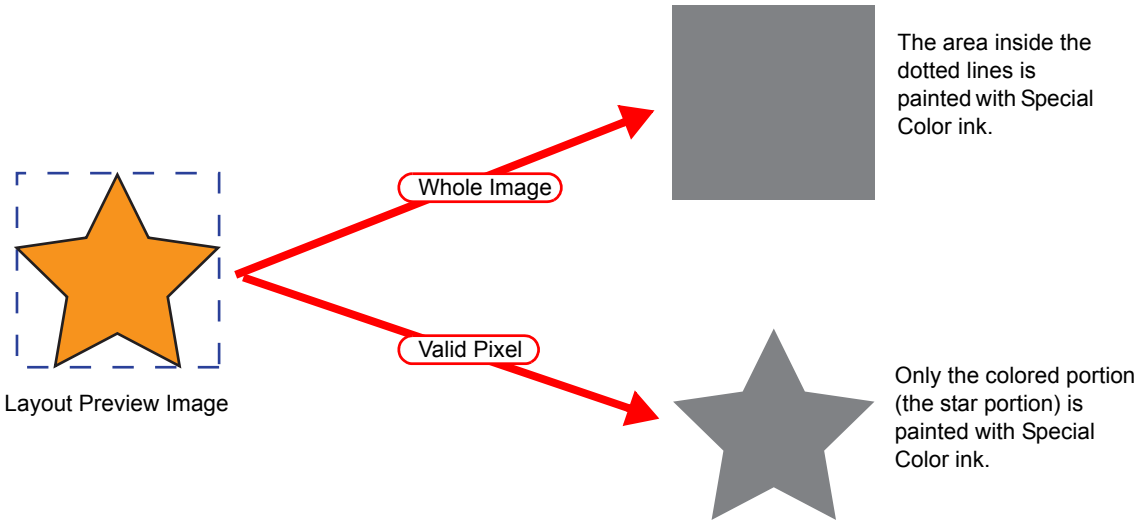
“Whole Image”:
Outputs a special color layer of the same size and shape surrounded by a dotted line in the layout preview.
“Valid Pixel”:
Outputs a special color layer with only the colored parts of the image.

“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.83) 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.

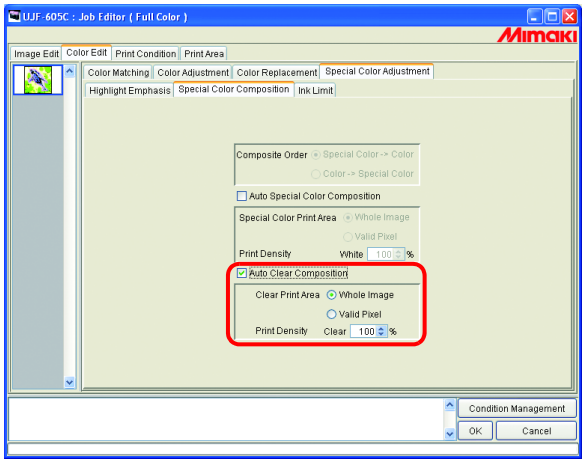
Automatically create a clear block

To create a clear block automatically, Clear liquid (Cl) must be selected in “Print Condition” - “Printing Mode” menu - “Special Colorset”.

Print a “color image” overlapping a “single color clear liquid image (clear block), automatically created based on the color image”.

> **NOTE!**
> Jobs with the following conditions cannot be set as Auto Clear Composition.
> - Paneling
> - Grouping
> - Multipage

Set the composition method.



“Clear Print Area”

Whole Image:.....Outputs a special color block of the same size and shape surrounded by a dotted line in the image layout preview.

Valid Pixel:.....Outputs a special color block with only the colored parts of the image.

“Print Density”

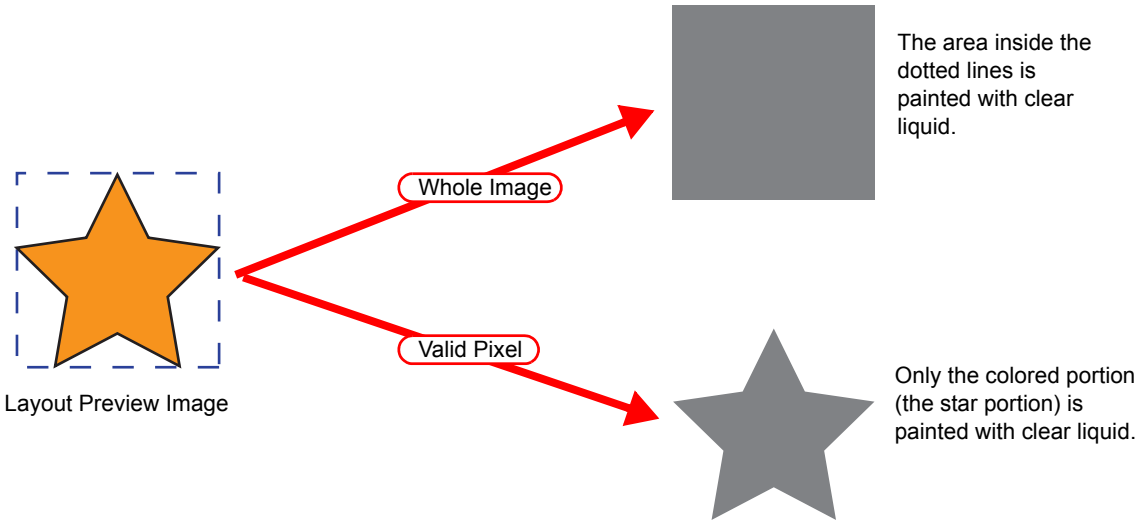
Specify a density for clear liquid between 0 and 100% for outputting the clear block. For print density, only the number of clear liquids selected in the special colorset can be specified.

> **NOTE!**
> When printing clear blocks, a UV irradiation method must also be specified in the print conditions.(☞ P.91)

> - The composition order is fixed as Color -> Clear Block.
> - When printing clear liquid over color, the fixability of the clear liquid is improved by setting the UV irradiation of the color to low, and leaving it not fully consolidated. (☞ P.97)

Example of “Automatic Clear Composition”

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



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

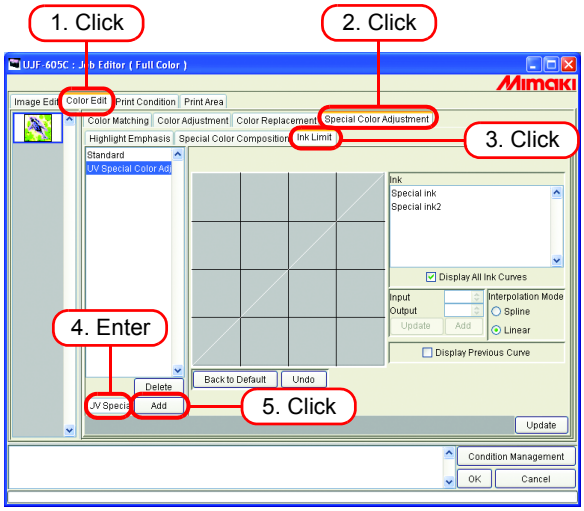
Create a special color adjustment set for each special color set.

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.

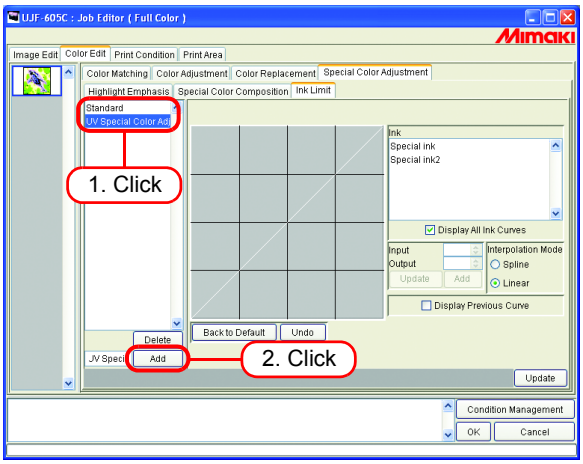


- To create a new special color adjustment set, select “Standard”. Then enter a set name, and click [Add] .
- To copy a previously registered special color adjustment set, select the set to edit and after changing the set name, click [Add] .

Deleting a special color adjustment set

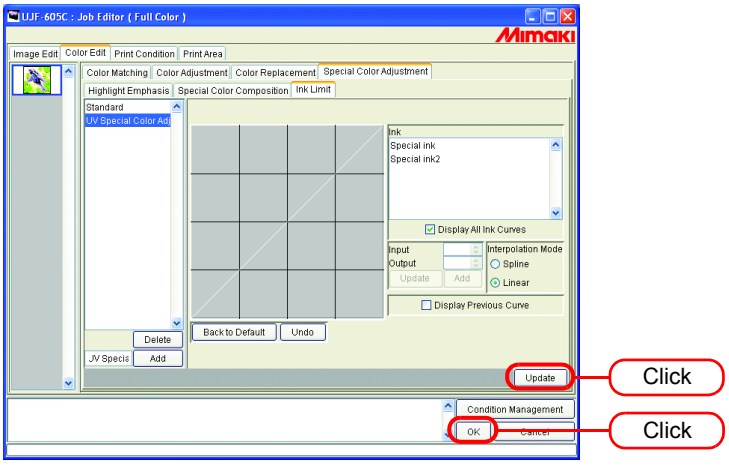
Click a registered special color adjustment set.

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.



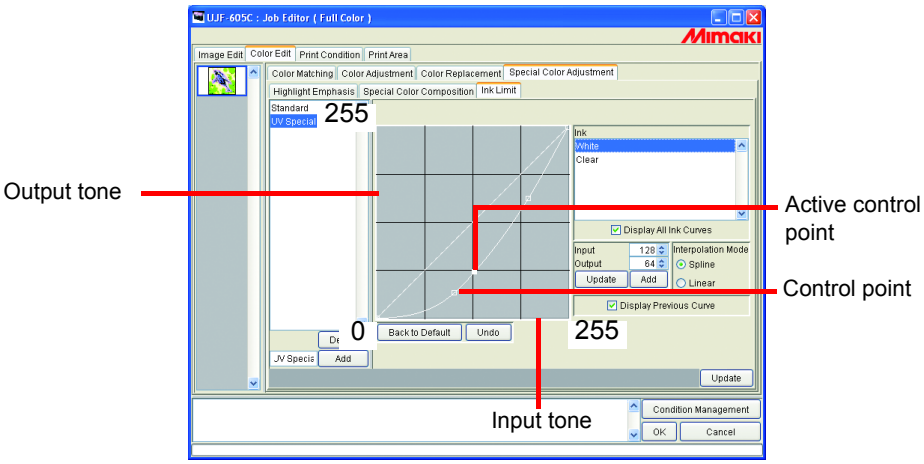
NOTE ! When a special color adjustment set is updated, the changes are also applied to other jobs that use the same special color adjustment set. If the changes are applied to a different job with already RIPped data, if “Print only” is performed the print results may differ. Either perform RIP again,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

Adjust the ink curve

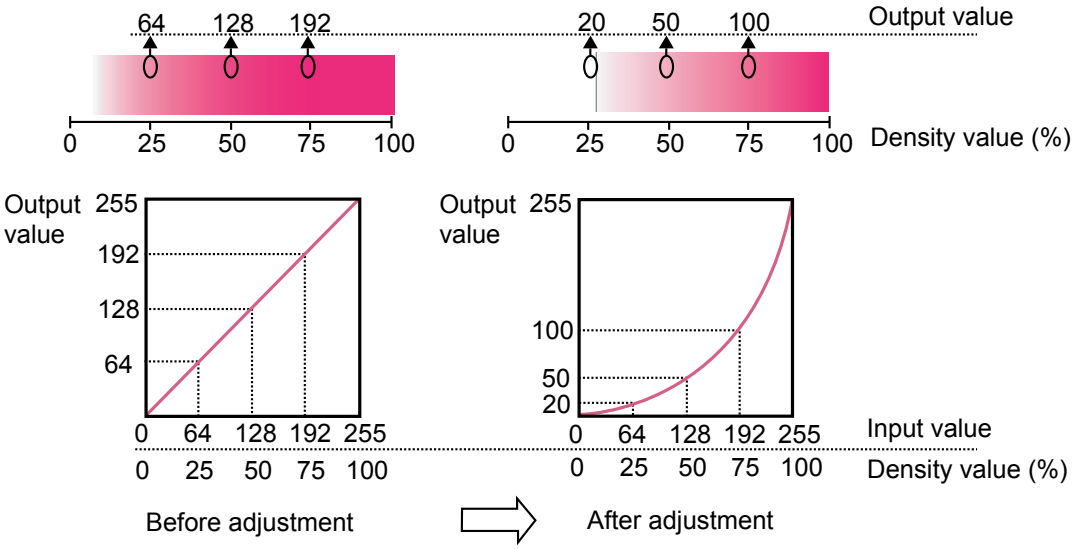
Display the special color ink curve selected in “Special Colorset”. The horizontal axis shows the ink density before adjustment (input tone), and the vertical axis shows the ink density (output tone) after adjustment. Both vertical and horizontal axes display a range from 0 to 255. If the output tone 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.50)

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.



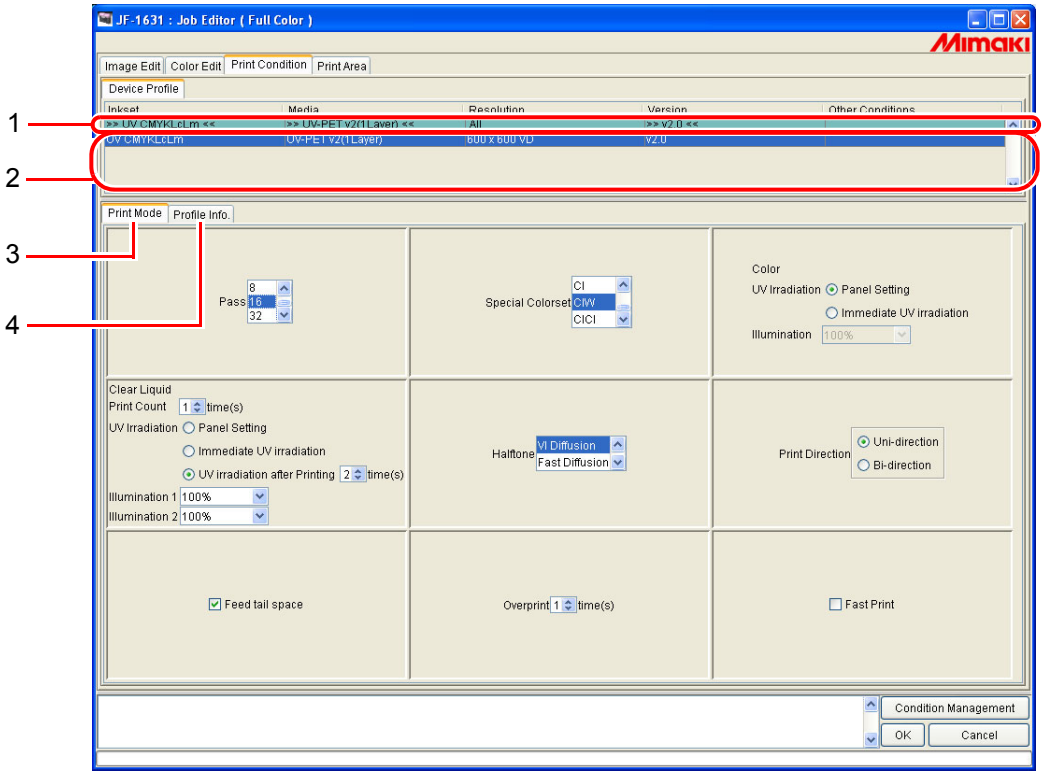
An example of ink curve application when using special colors on the “Gradation” menu in the “Color Replacement” menu.



Editing Print Condition

Set the print conditions.

> **NOTE !** If multiple jobs are set to Group, all the jobs become same print condition.



1. Refining the device profile

Displays the refined device profile.(☞ P.94)

2. Device Profile list

Indicates profiles for optimum printing.

Click and select the profile to be used.

> **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.)

3. [Print Mode] sub menu

Set the various print mode.(☞ P.95)

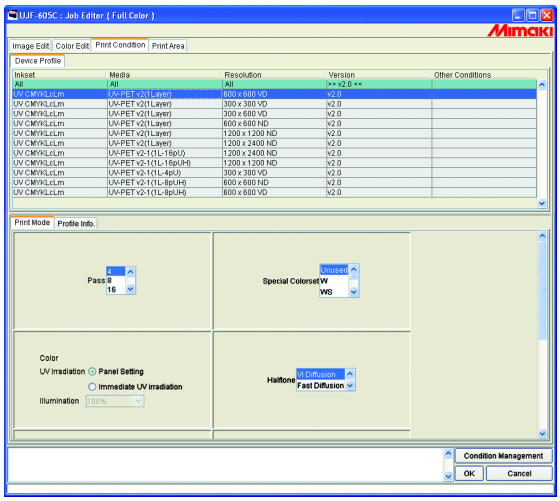
4. [Profile Info] sub menu

Displays the information of a Dvice Profile.(☞ P.98)

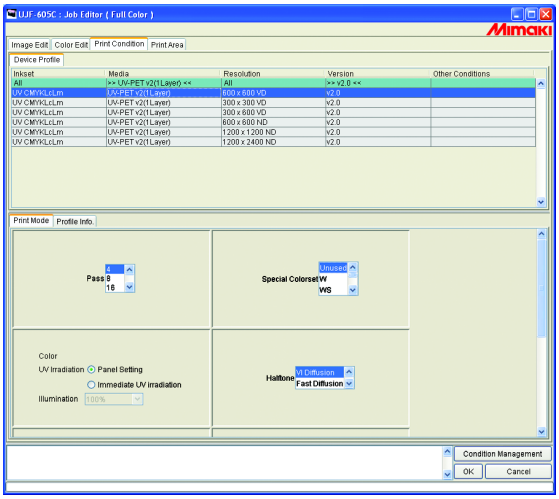
Device Profile Refined Display

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.

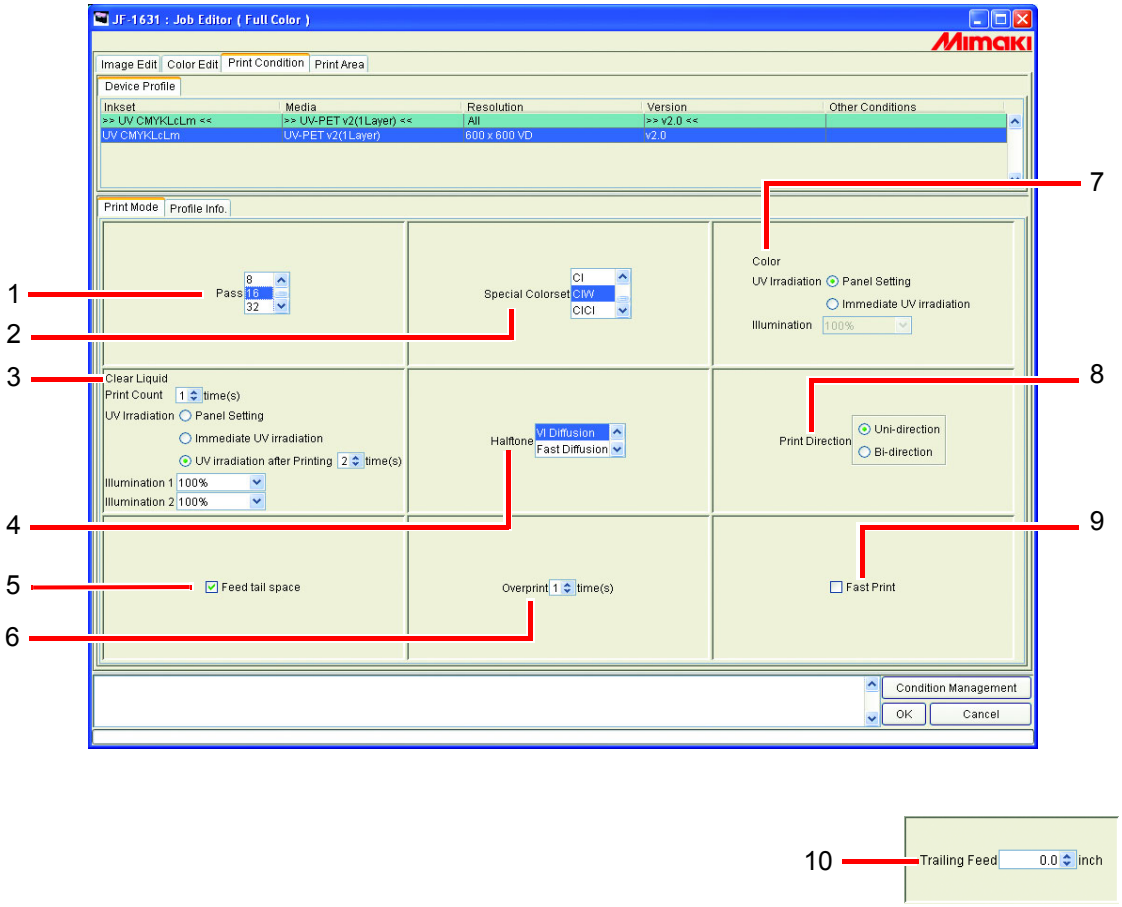


When Media refines the UV-PET v2(1Layer) profile



[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. 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.

W: .....Use one white color.

WS: .....Use one white color and special color.

Cl: .....Use one clear liquid.

ClW: .....Use one clear liquid and special color.

ClCl: .....Use two clear liquids.

NOTE!

Restrictions when clear liquid is selected in Special Colorset.

When clear liquid is selected in Special Colorset, the following operations are not possible.

- "Immediate Print" cannot be executed except when "Automatic Clear Composition" is specified. Only "Rip and Print" can be executed. "Immediate Print" and "Rip and Print" can be executed when a special colorset other than clear liquid is selected.
- Arranging the job cannot be executed. The job can be composited.

3. UV Irradiation (Clear Liquid)

UV Irradiation can be set when clear liquid (Cl) is selected in Special Colorset.

"Print Count" ..... Specifies the number of times to print clear liquid.

"UV Irradiation"

Panel Setting: ..... Uses the UV irradiation mode set on the panel.

Immediate UV irradiation: ..... Performs UV irradiation the same number of times as printing of clear liquid. Specifies the intensity of UV irradiation.

UV irradiation after printing: ..... Prints only with clear liquid, then performs UV irradiation afterwards. Specifies the number of times and the intensity of UV irradiation.

"Illumination 1" ..... Specifies the intensity of the first UV irradiation.

"Illumination 2" ..... Specifies the intensity of the second UV irradiation.

Example:

Print order when "Print Count 2 times", "UV irradiation after Printing", "2 times", Intensity 30% and 100% is set

Color printing -> clear liquid printing -> clear liquid printing -> UV irradiation only (30%) -> UV irradiation only (100%)

4. 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.....Available with Version 3 device profiles. Excellent at reproducing pale colors, so that suitable for images with many gradations.

5. Feed tail space

If there is white space at the bottom edge of the image (top of the original image), sets whether or not to feed the white part.

6. 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.

7. UV Irradiation (Color)

“UV Irradiation”

Panel Setting: ..... Uses the UV irradiation mode set on the panel.

Immediate UV irradiation:..... Performs UV irradiation at the same time as printing.

“Illumination”..... Specifies the intensity of UV irradiation.

8. Print direction (JF-1631 only)

Uni-direction:.....Prints discharging ink when the head moves from right to left. It results in better printing than “Bi-direction”, but takes longer.

Bi-direction:.....Prints discharging ink when the head moves left and right. Quality is not as good as with “Uni-direction”, but printing is faster.

9. Fast Print

High-speed printing is available to shorten the printing time.

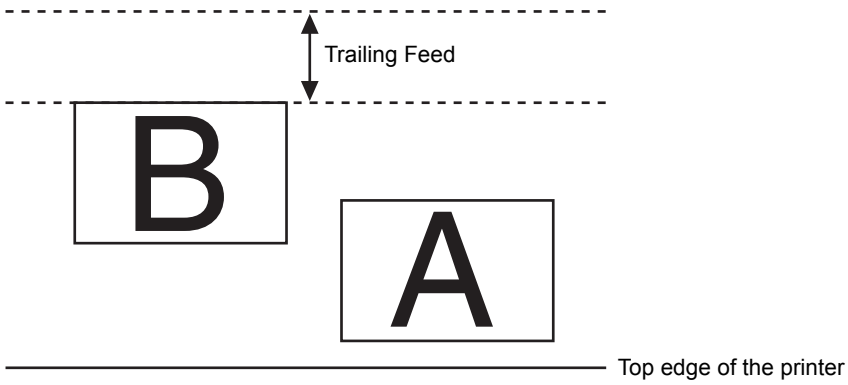
However inferior in quality.

10. Trailing Feed (UJF-605R only)

Sets the transfer amount of the media after it is printed.

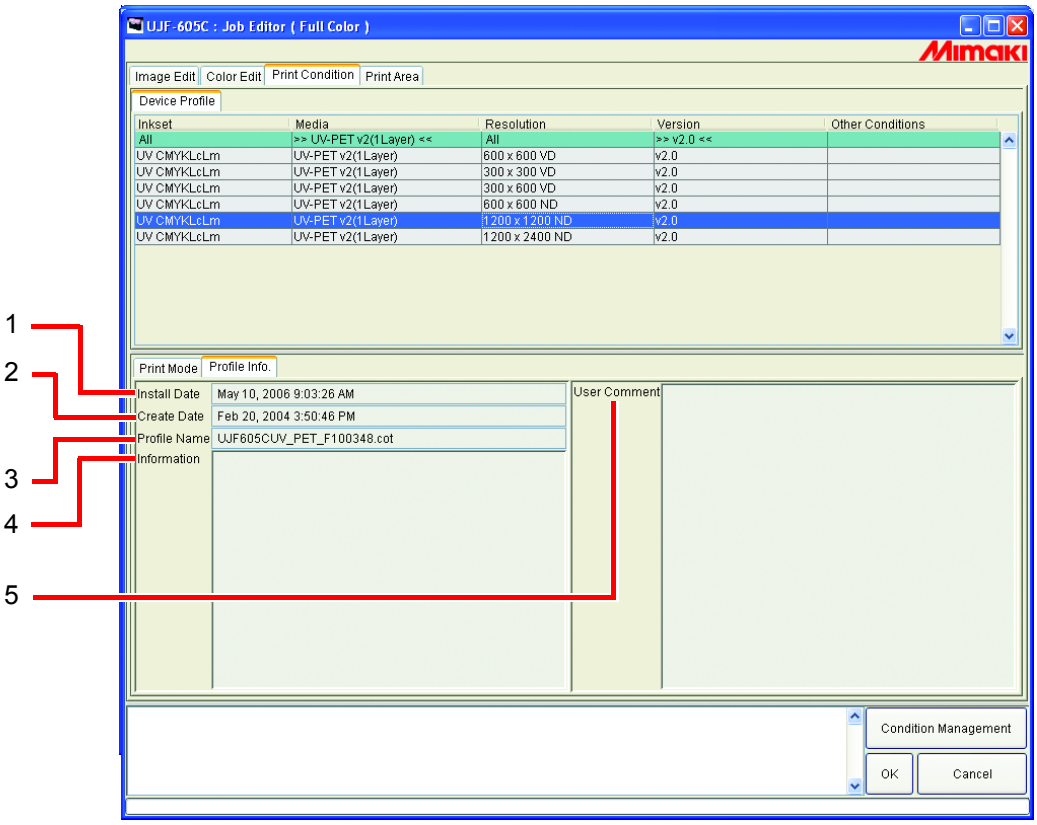
The amount of transfer is set from the end of the image.

When multiple jobs are grouped and output, the transfer amount is from the end of the last image.



[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. User Comment

Comments are writable to selected profiles.

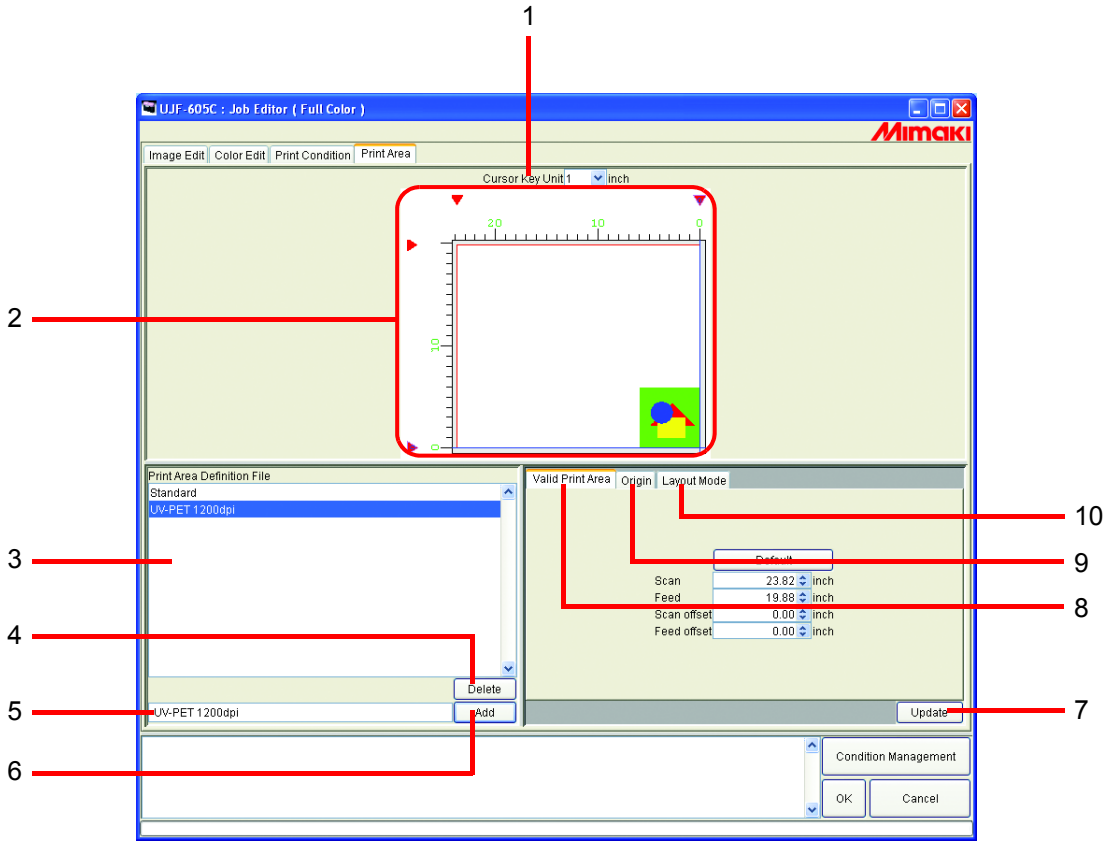
When you select a profile, this User comment column displays the comment that you wrote on the profile.

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.
The setting items are different between UJF-605C and UJF-605R.

[Print Area] Menu

Settings about valid print area.



1. Step for cursor key

Select step that will be used when moving the Origin by pressing arrow keys.(☞ P.108)

2. Print Area view

Display the values that are set in [Print Area] menu. (☞ P.101)

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.113)

4. Delete **button**

Delete Print Area Definition File.(☞P.113)

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.111)

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.103)

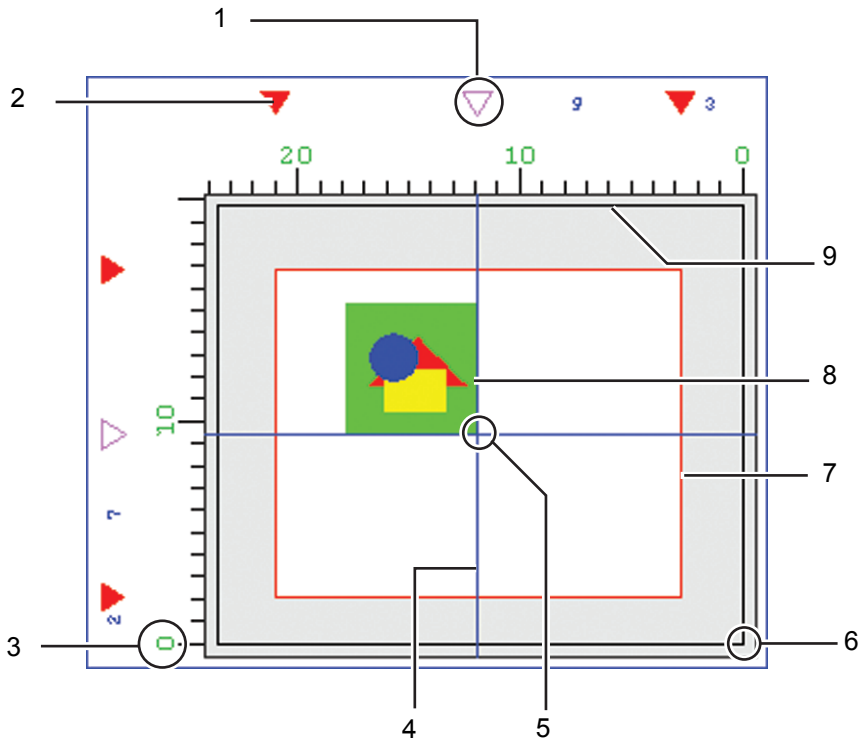
9. [Origin] sub menu (UJF-605C only)

Set Origin within Valid Print Area.(☞P.107)

10.[Layout Mode] sub menu (UJF-605C only)

Set where to place an image from Origin.(☞P.109)

Print Area view



1. Origin Guide

Drag this mark to move the Origin Guide line (blue line).
This is not indicated in the case of UJF-605R.

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.104, P.106)

6. Printer Origin, Initial Origin

Initial origin displayed when the power of printer is turned on.(☞ P.104, P.106)
This point is the initial origin of the Print Area. (☞ P.104, P.106)

7. Valid Print Area

Show with red rectangle the Valid printing area that is set in [Valid Print Area] sub menu.
(☞ P.104, P.106)
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)

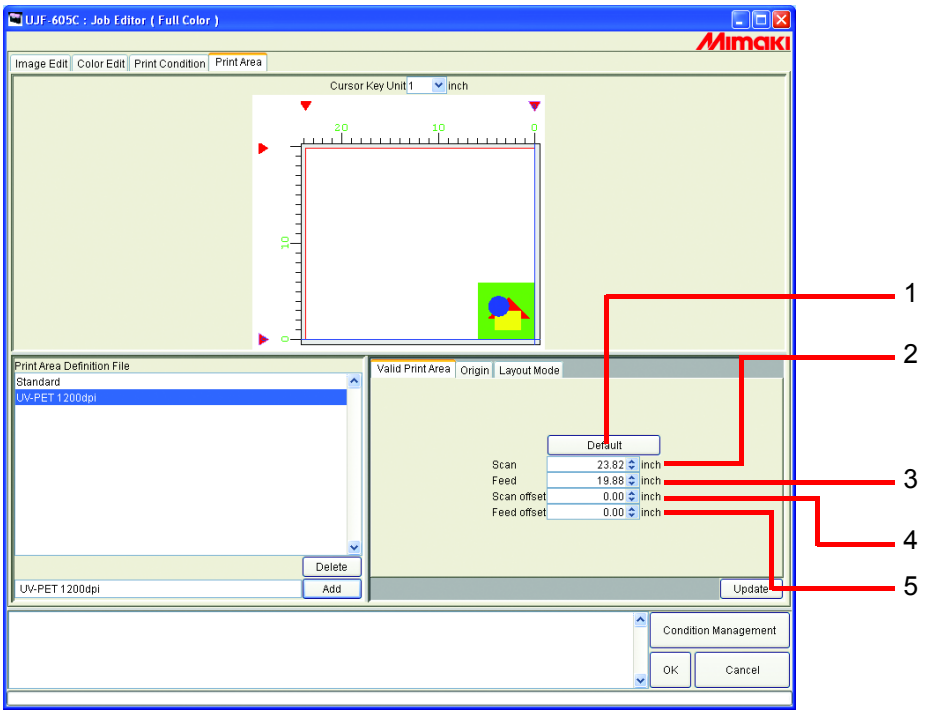
9. The largest Print area

The largest print area.

[Valid Print Area] sub menu

UJF-605C, JF-1631

Set Valid Print Area on the table of UJF-605C.



1. Default button:

Set the maximum Valid Print Area, and set the origin at the Initial Origin of UJF-605C.

2. Scan:

Input the width of the Valid Print Area.

3. Feed:

Input the height of the Valid Print Area.

4. Scan offset :

Input the distance from the printer origin of UJF-605C in the scan direction.

5. Feed offset :

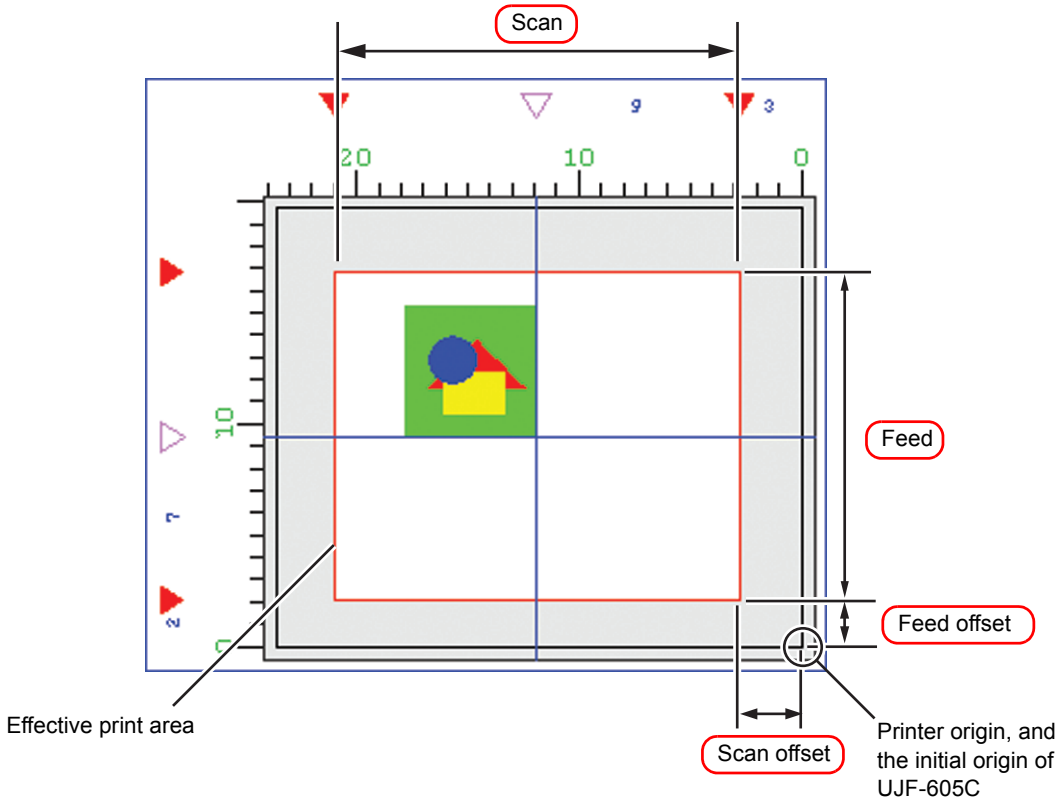
Input the distance from the printer origin of UJF-605C in the feed direction.

Setting a Valid Print Area

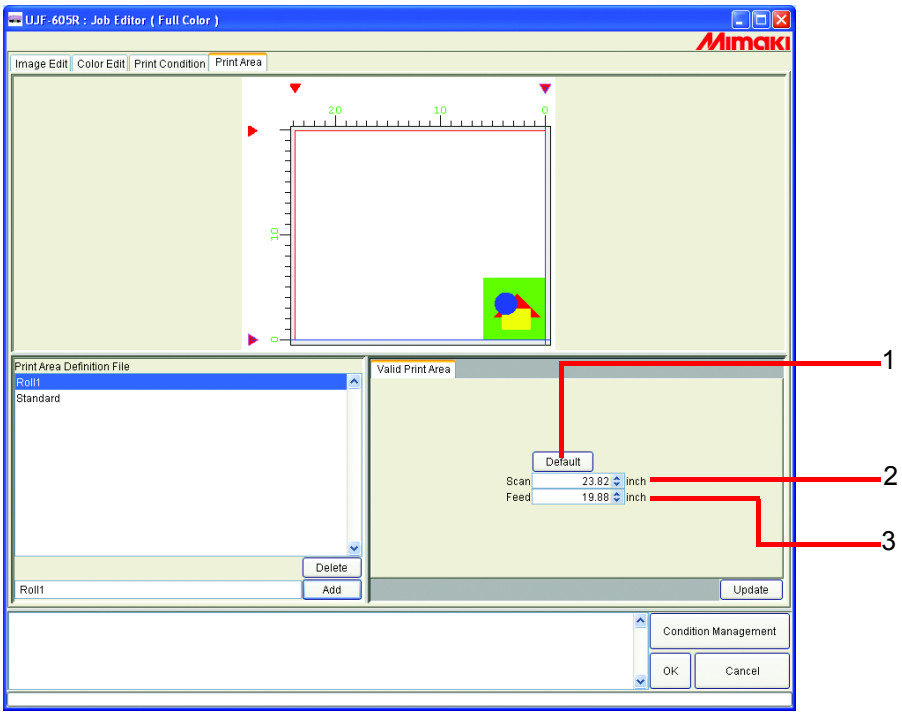
A Valid Print Area is indicated by a red square.

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.



UJF-605R



1. Default **button :**

Sets the Valid Print Area to its maximum and sets the position of the origin to the bottom right.

2. Scan :

Input the width of the Valid Print Area. Printable area is center of the plotter.

3. Feed offset :

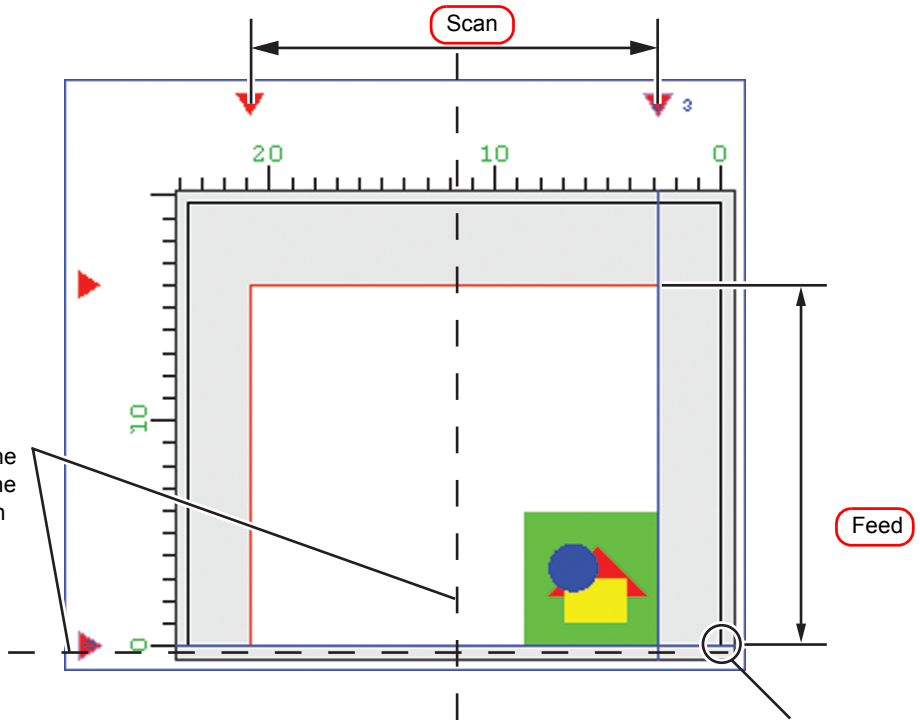
Input the height of the Valid Print Area. Printable area is started from top part of the plotter.

Setting a Valid Print Area

A Valid Print Area is indicated by a red square.

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.



The size is changed using the center as baseline for scan direction and the top for feed direction.

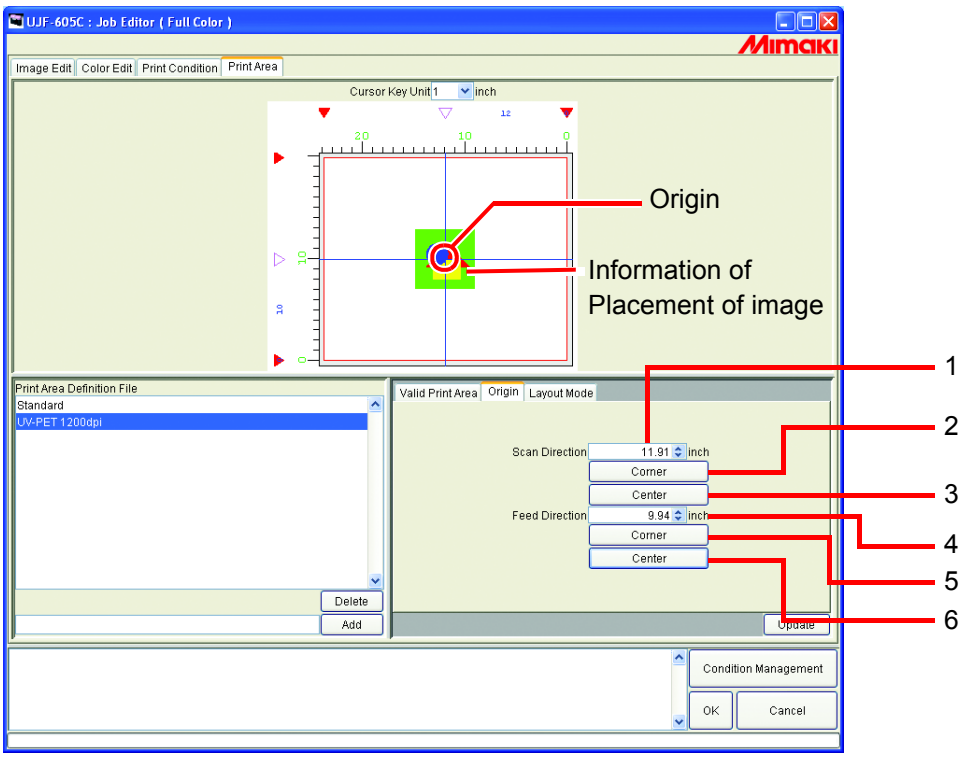
Printer origin, and the initial origin of UJF-605R

[Origin] sub menu (UJF-605C, JF-1631)

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

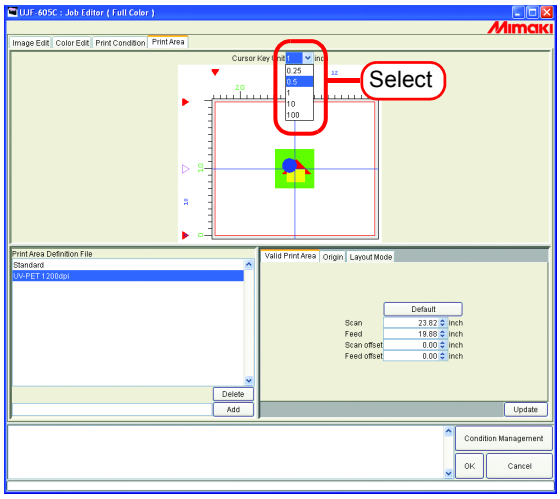
Position the origin at the bottom line of the Valid Print Area.

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.



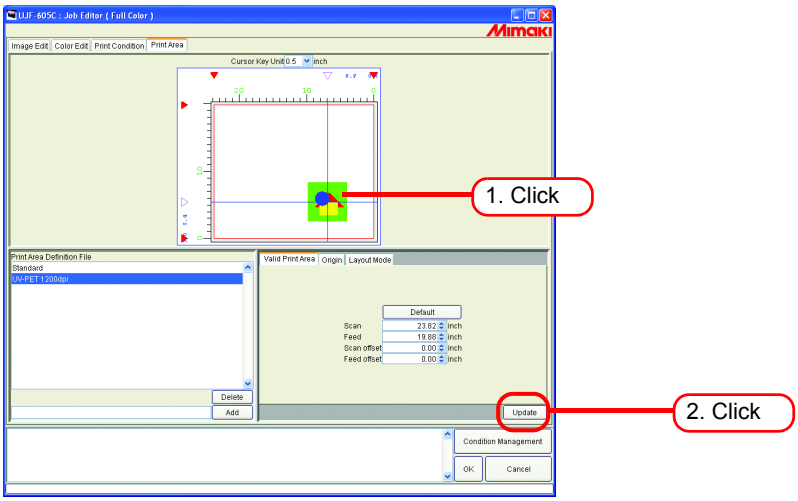
2 Click the Valid Print Area with the mouse to make the print area view active.

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.

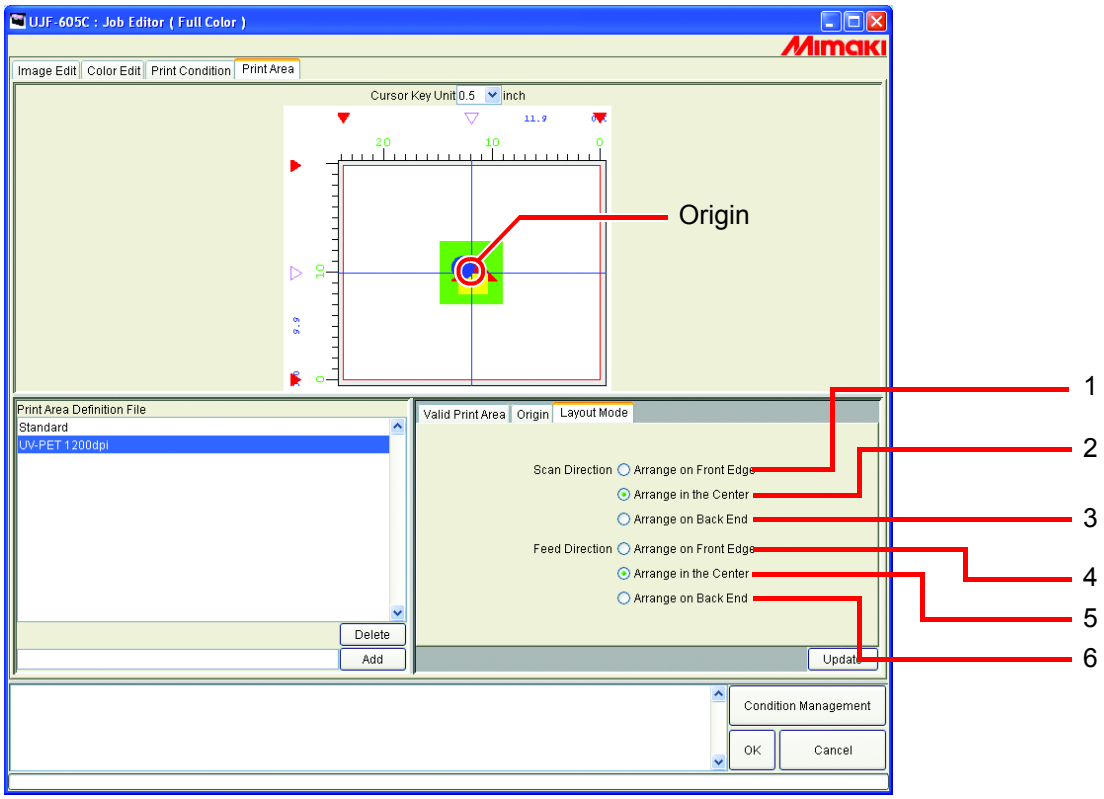
Click Update .



[Layout Mode] sub menu (UJF-605C, JF-1631)

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

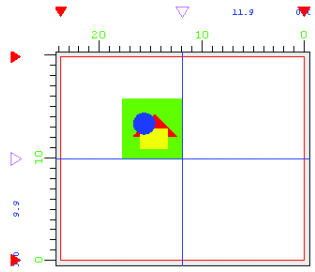
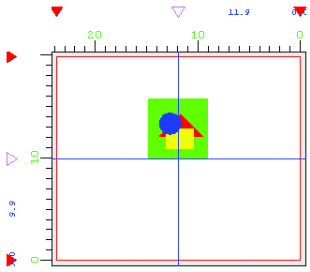
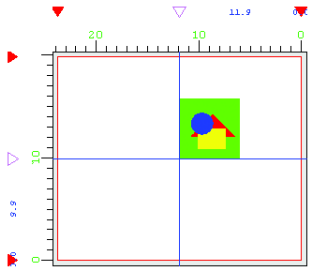
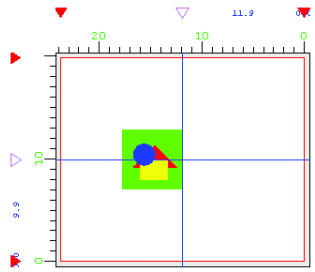
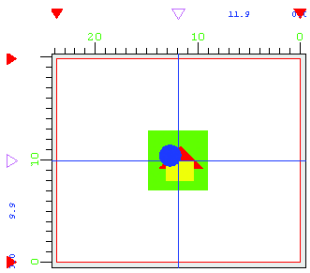
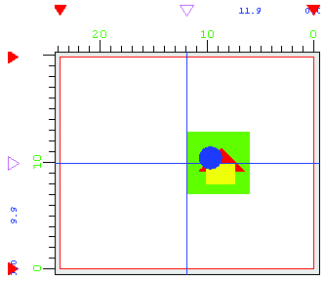
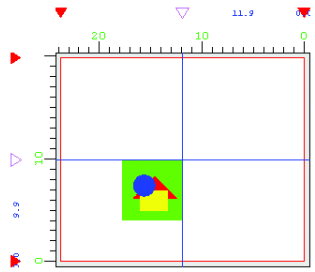
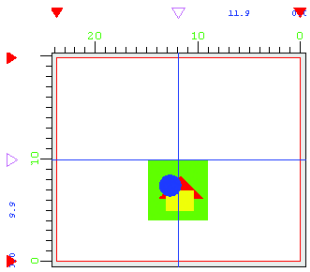
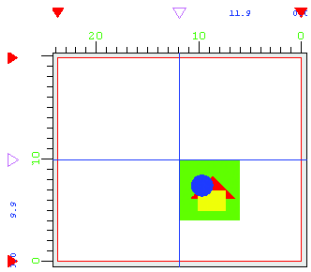
Align the head end of the image in the feed direction with the origin.

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			

In the case of UJF-605R, Scan Direction and Feed Direction are always set to Arrange on front edge.

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.

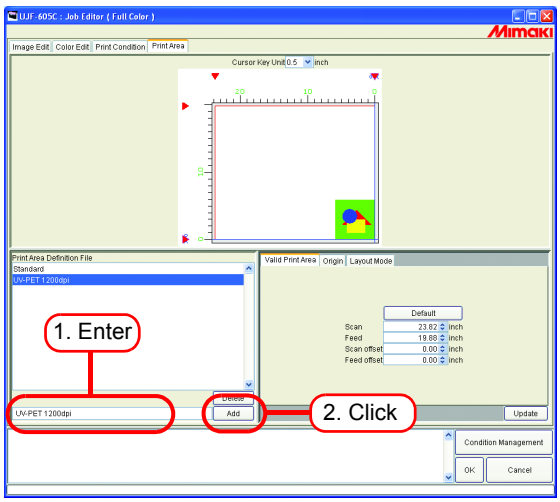
Input a registration name.

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.
\ / : * ? “ < > |

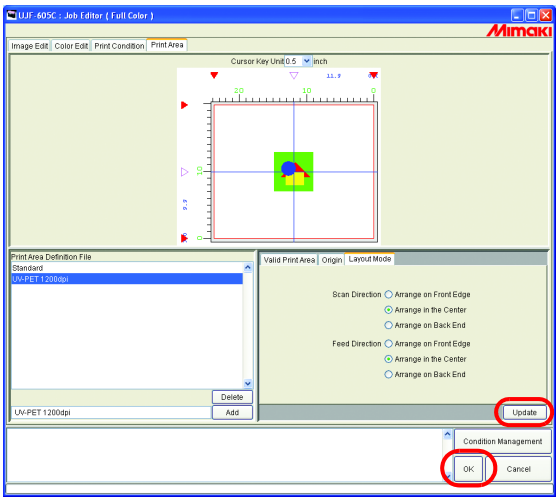
Click [Add].

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



Updating the Print Area Definition File

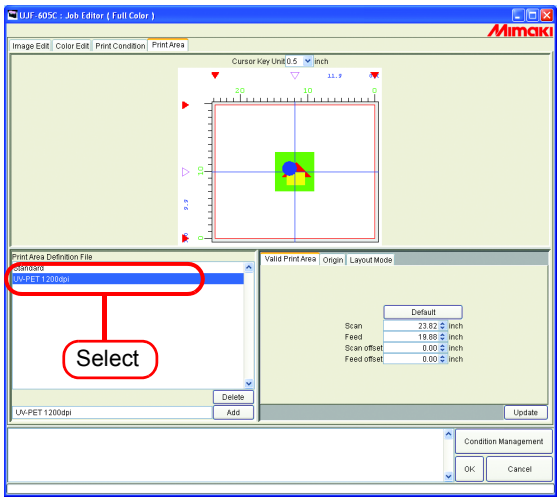
To update the Print Area Definition File, click [Update] or [OK], and exit the “Job Editor”.



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

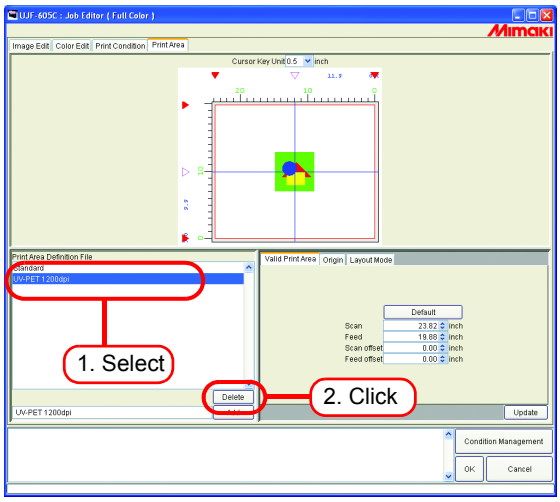
Delete a Print Area Definition File registered.

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

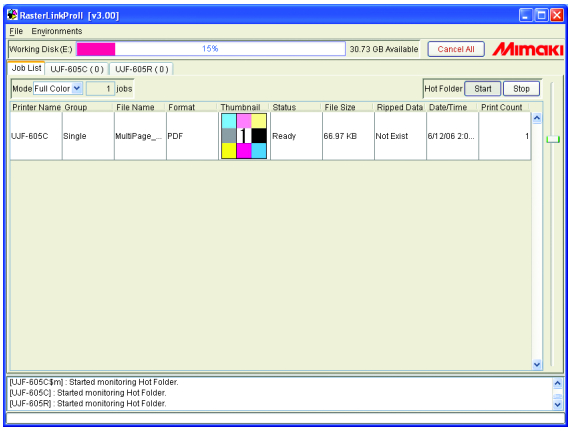
Files with multiple images in one file are called “multipage” images.

In Raster Link Pro II, all pages of multipage images can be print at the same time.

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

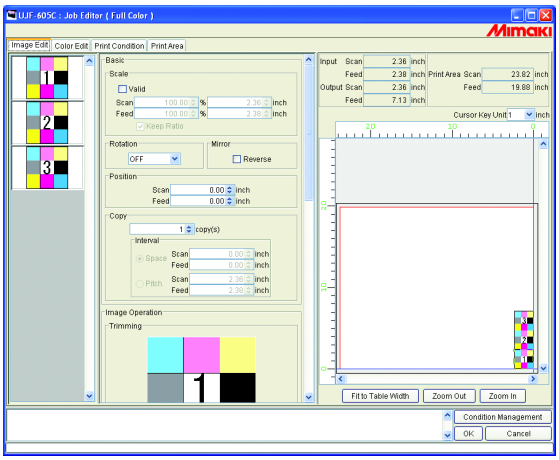
Main Window

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)

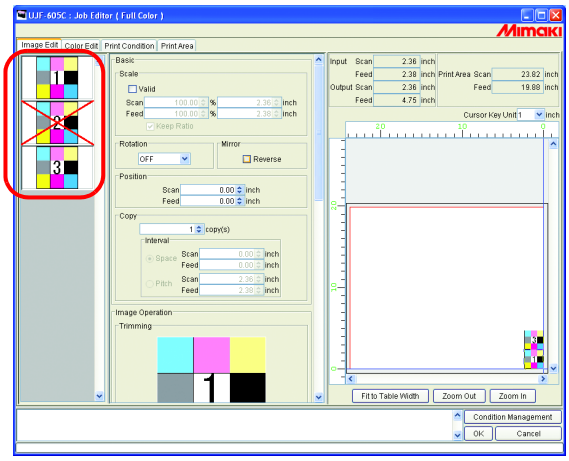
Decide the print pages

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.



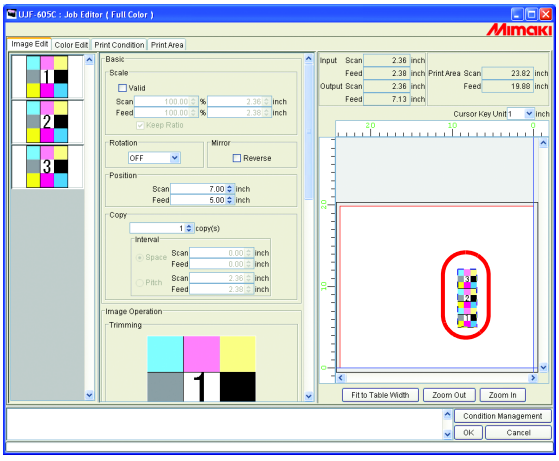
- Images marked with a cross (images not shown in the preview) are not printed.
- To print images that are set so as not to be printed, click thumbnails marked with a cross.

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.

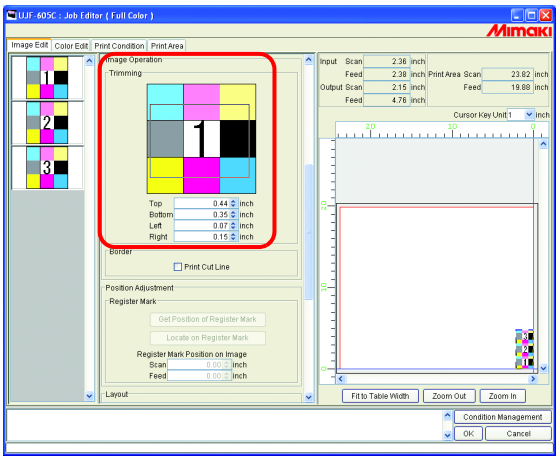


Each page cannot be arranged separately.

Trimming

Trims all pages.

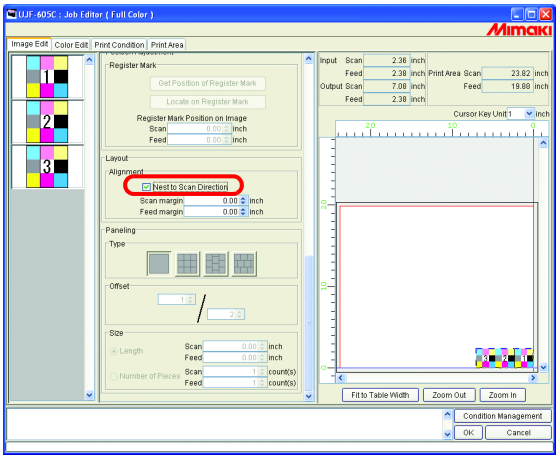
The Trimming preview shows the first page of jobs for print.



Alignment

Specifies the pitch of each page.

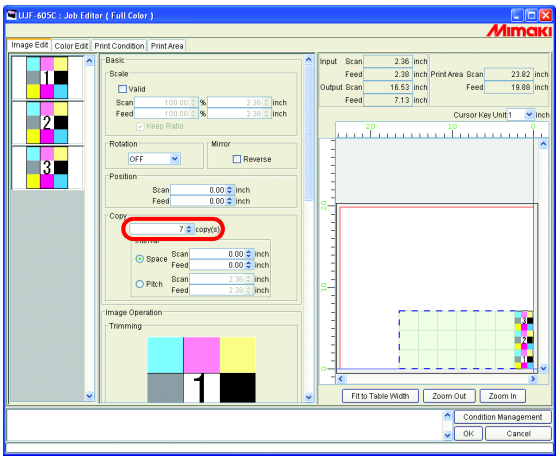
When “Nest to Scan Direction” is checked, the pages are arranged horizontally.



Copy

Copies each page.

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



NOTE ! With multipages, Paneling setting is not possible.

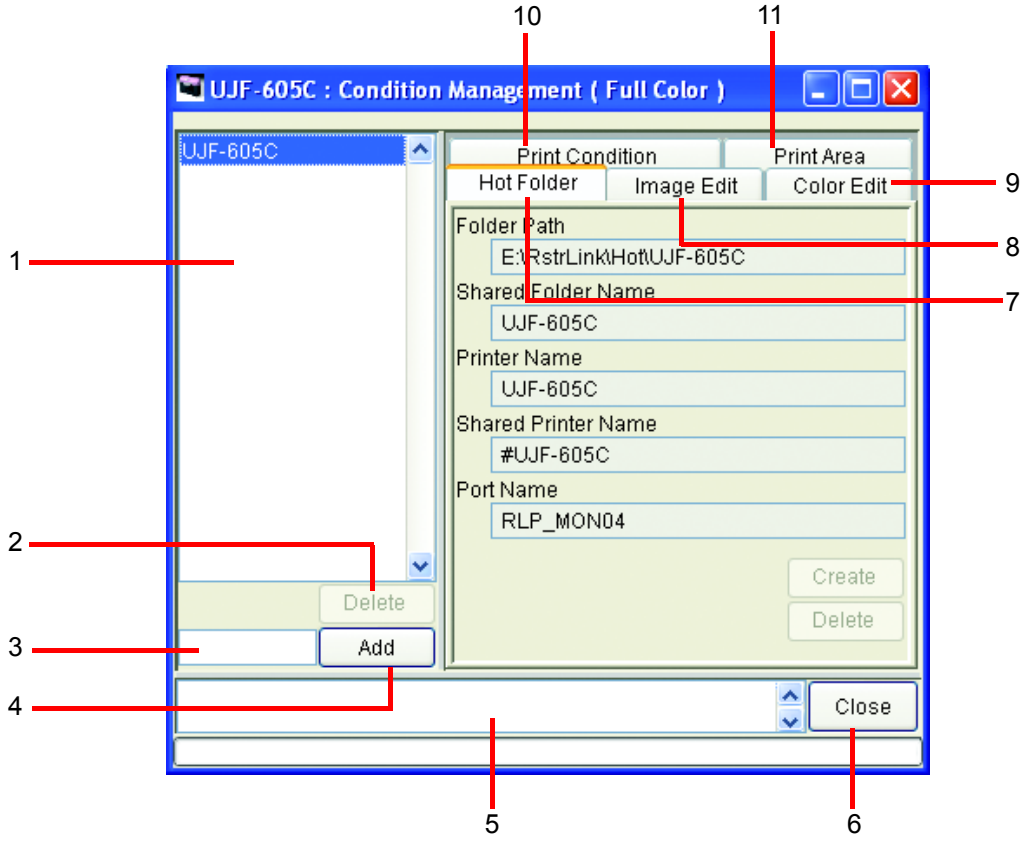
About Condition Management

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.120, P.128)

8. [Image Edit] Sub menu

Sets conditions for image editing.(☞ P.120)

9. [Color Edit] Sub menu

Sets conditions for color editing.(☞ P.121)

10. [Print Condition] Sub menu

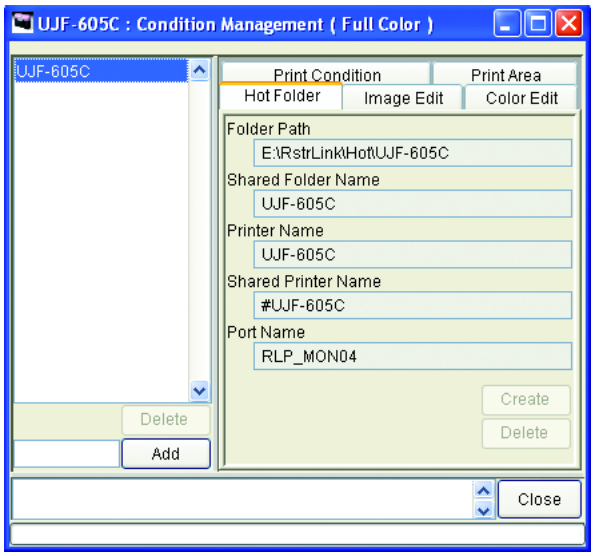
Sets print conditions.(☞ P.122)

11. [Print Area] Sub menu

Set conditions for Print Area..(☞ P.122)

[Hot Folder] Sub menu

Hot Folders or Printer Drivers are able to add or delete. See ☞P.128 for how to add or delete a Hot Folder or Printer driver.

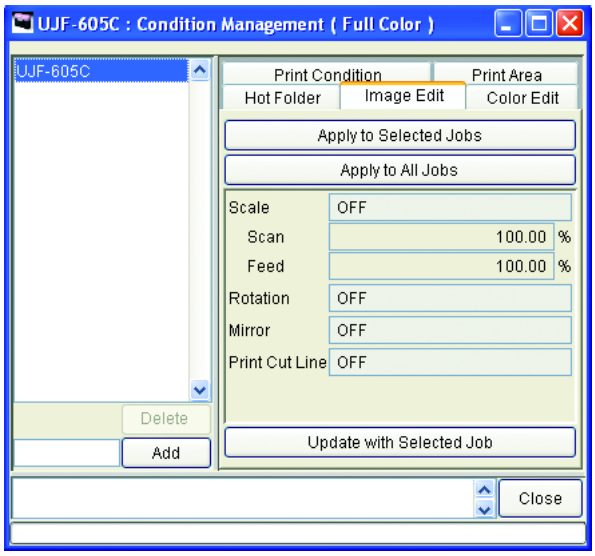


[Image Edit] Sub menu

Parameters for Image Editing setable. See ☞P.124 for how to set parameters.

The parameters that can be set are as follows:

Scale, Rotation, Mirror, Print Cut Line



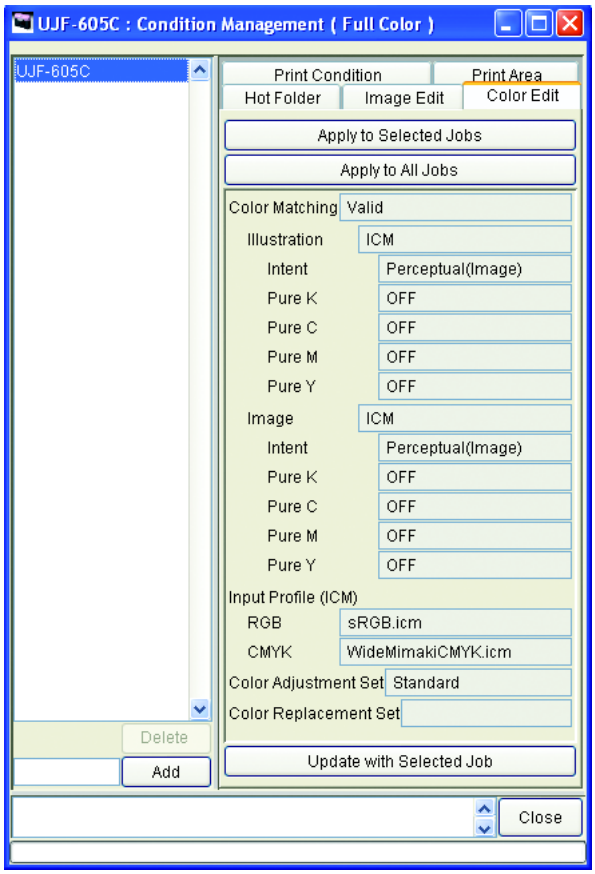
NOTE ! For the jobs on which paneling is set, the condition may not apply.

[Color Edit] Sub menu

Parameters for Color Editing setable. See ☞P.124 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

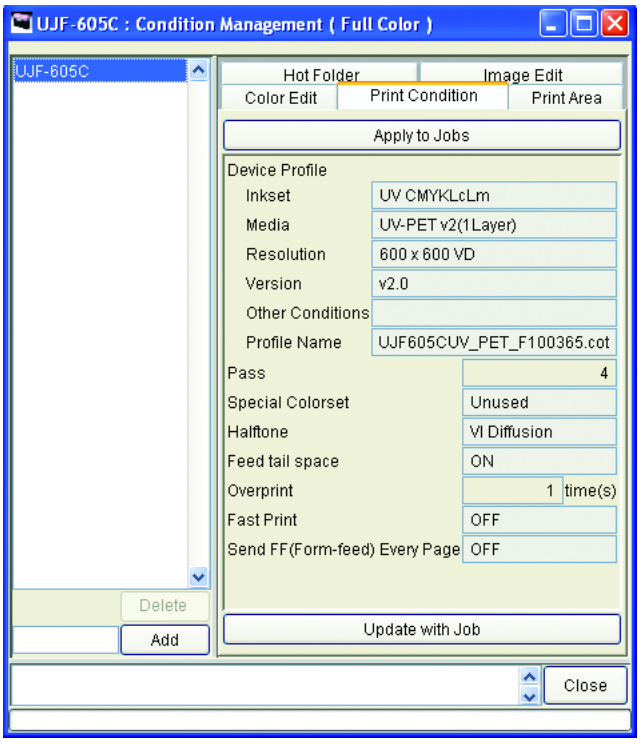


[Print Condition] Sub menu

Parameters for Print Condition setable. See ☞P.124 for how to set parameters.

The parameters that can be set are as follows:

Device Profile, Print Mode

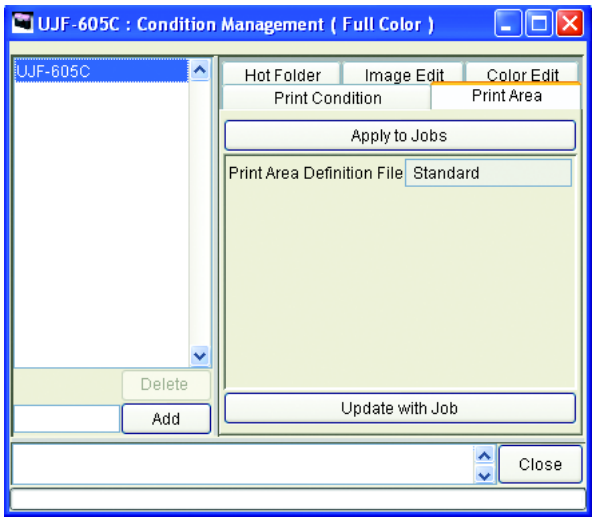


[Print Area] Sub menu

Parameters for Print Area settable. See ☞P.124 for how to set parameters.

The parameters that can be set are as follows:

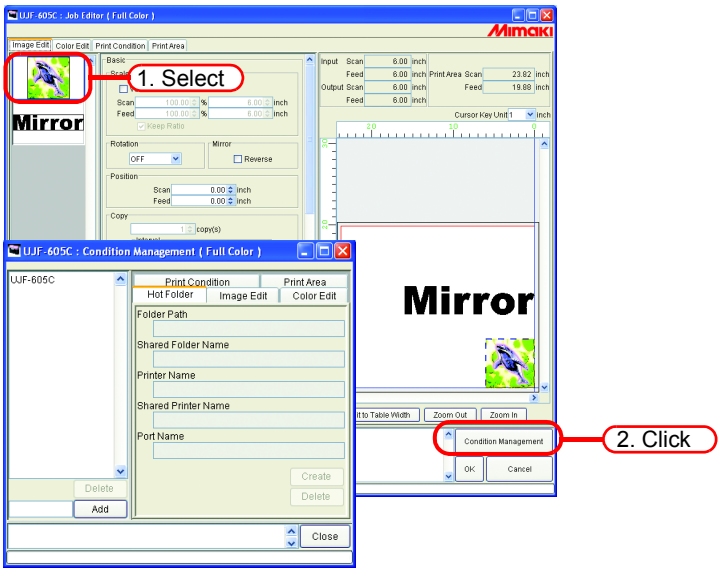
Print Area definition file



Displaying the Condition Management Window

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

Open the “Condition Management” window.



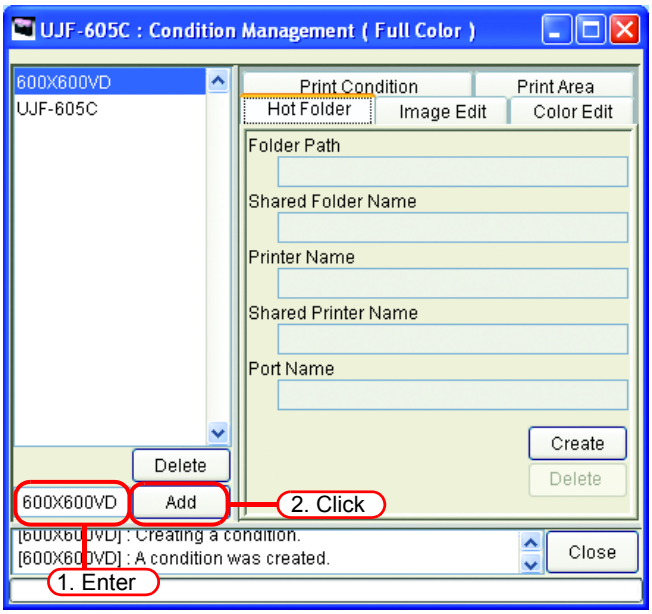
Creating a New Condition Set

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 and Print Area are changed independently, however Color Edit and Print Condition are changed as a set.

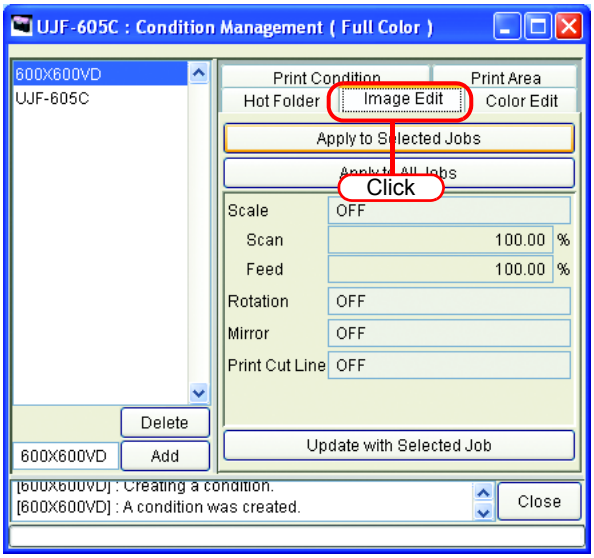
1 Open the “Condition Management” window.

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”.

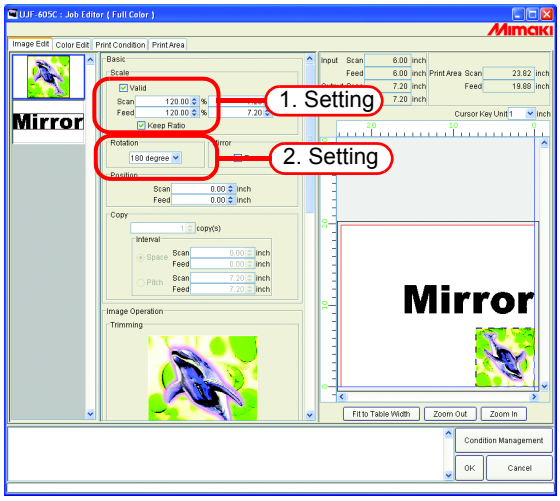


2 In “Job Editor”, perform setting of parameters.

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

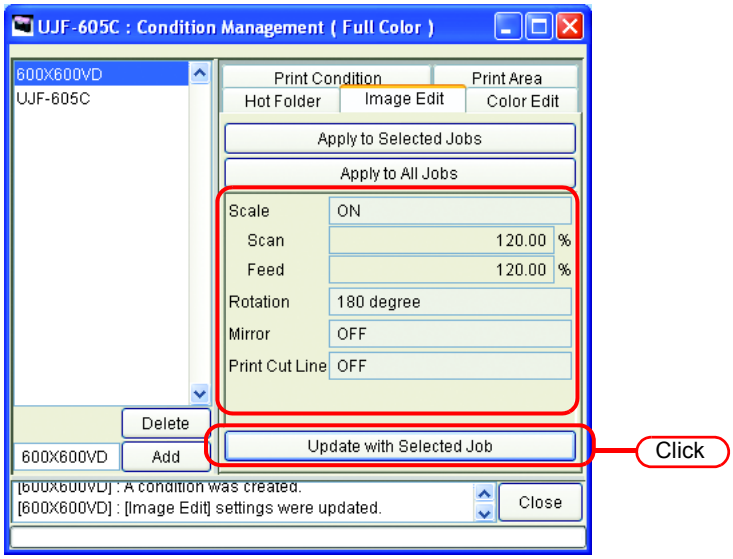
Scale: 120%

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.

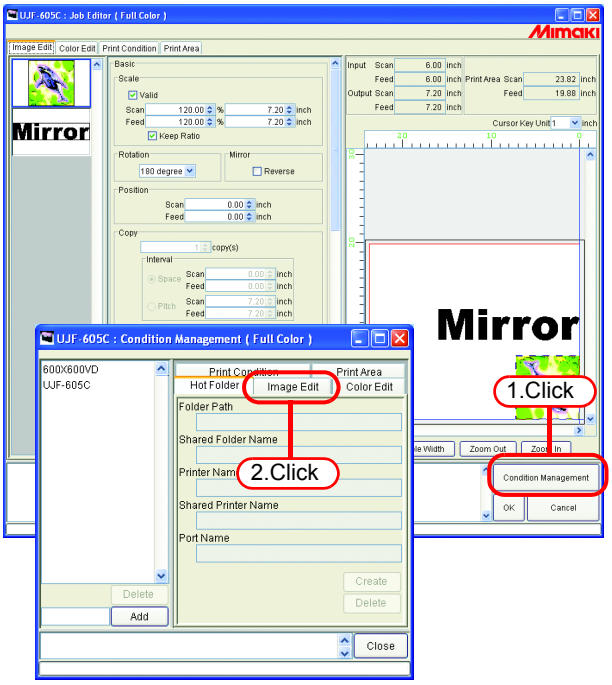
The conditions of Print Condition and Print Area are applied to all the grouped jobs.

1 Open “Condition Management” window.

Open the sub menu of conditions to be changed.

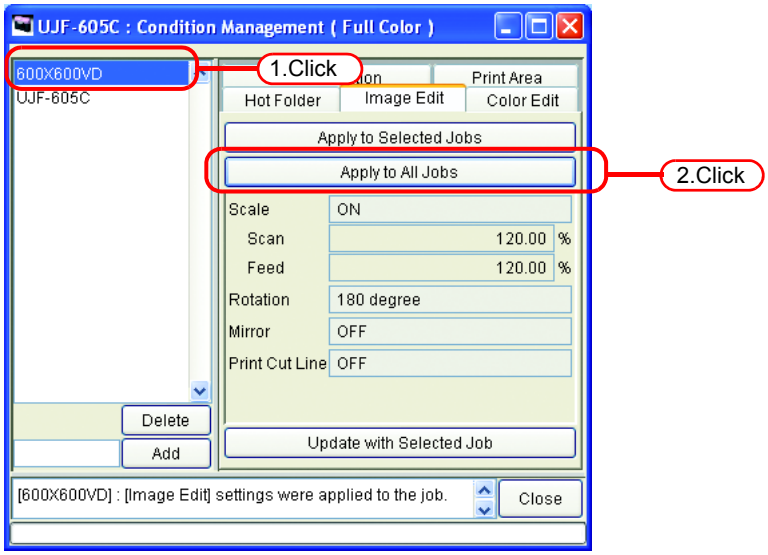
Open [Image Edit] here.

“Job Editor” also displays [Image Edit].

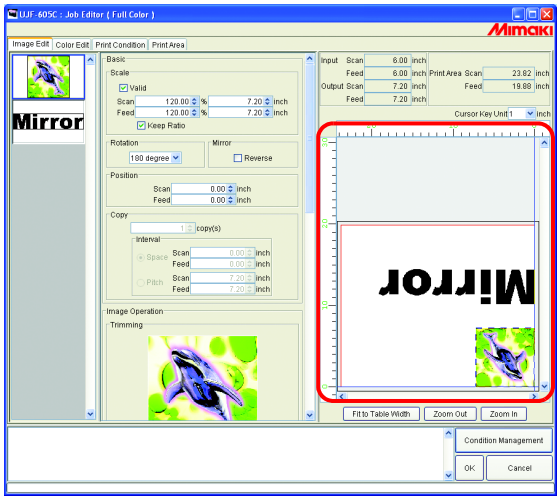


The menu of “Job Editor” is switched to meet the menu shown in “Condition Management”.

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.

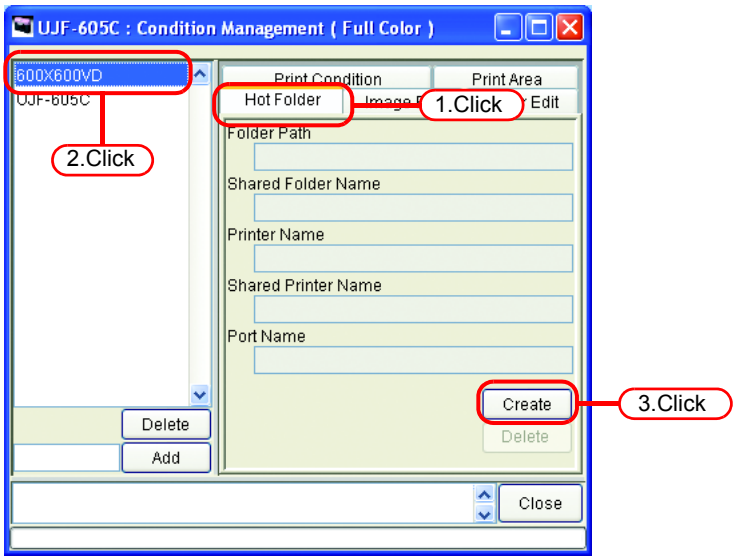
The various conditions of the job that you have spooled using the prepared Hot Folder or Printer driver reflect the conditions that have been set in “Condition Management”.

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 Raster Link Pro II 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.



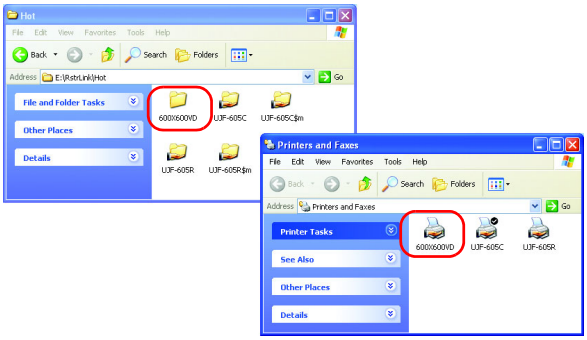
NOTE !

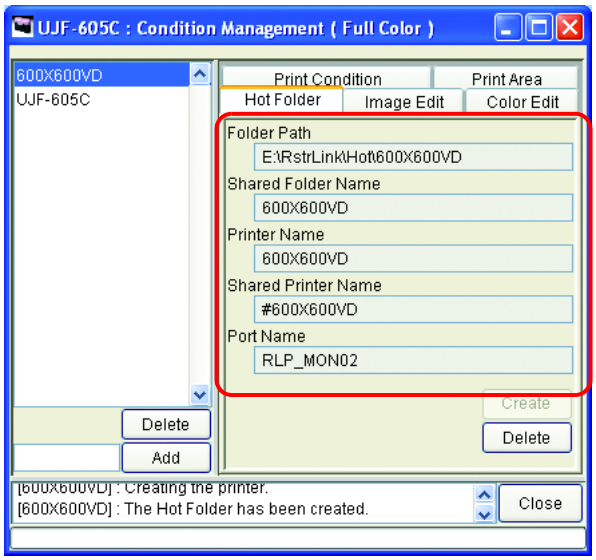
If PC MACLAN is installed on the Raster Link Pro II PC, the [PC MACLAN file server warning] screen may appear while creating the Hot Folder. Click OK to stop the PC MACLAN file server. The PC is not shut down.

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 Raster Link Pro II.
  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 Raster Link Pro II.
  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 Raster Link Pro II 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: Raster Link Pro II PC host name

Shared folder name: Condition set name

PC MACLAN print server

Spooler name: Condition set name_Raster Link Pro II PC host name

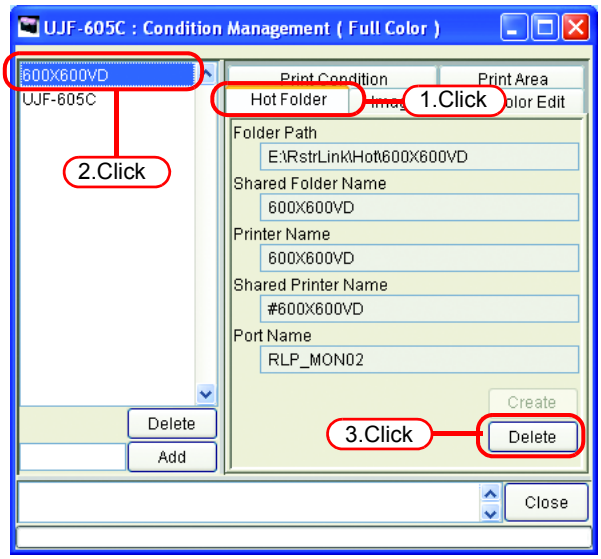
NOTE!

- 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, Raster Link Pro II 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.

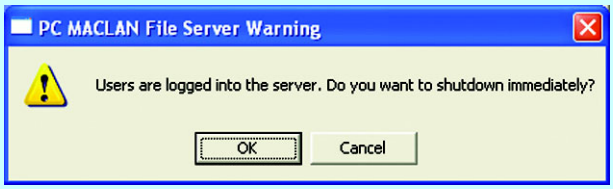
Deleting a Hot folder and Printer driver

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 Raster Link Pro II forcibly during deletion of a hot folder or printer driver.

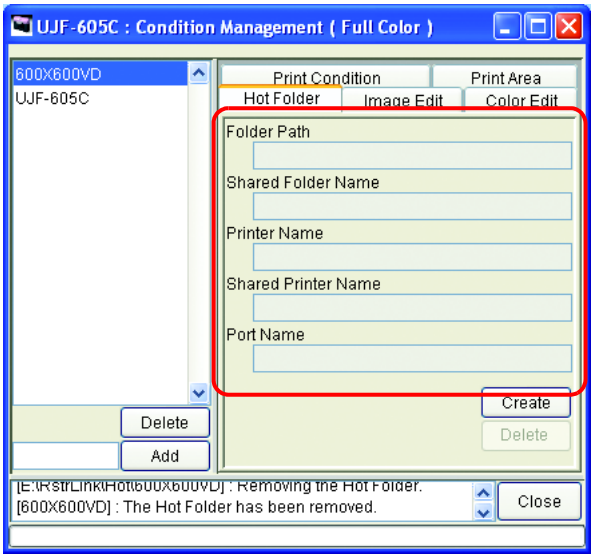


NOTE ! If PC MACLAN is installed on the Raster Link Pro II PC, the [PC MACLAN file server warning] screen may appear while deleting the Hot Folder. Click OK to stop the PC MACLAN file server. The PC is not shut down.



2 A Hot Folder and Printer driver are deleted.

NOTE ! When you mount the Hot Folder of Raster Link Pro II 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 Raster Link Pro II 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, Raster Link Pro II 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.

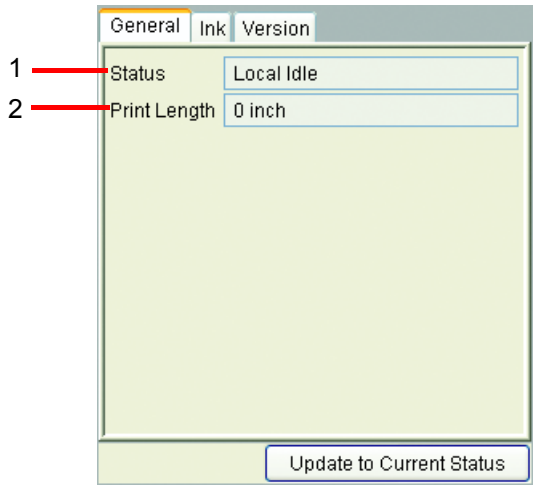
NOTE!

- 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

Status of the printer is displayed.



1. Status

Current status of the printer.

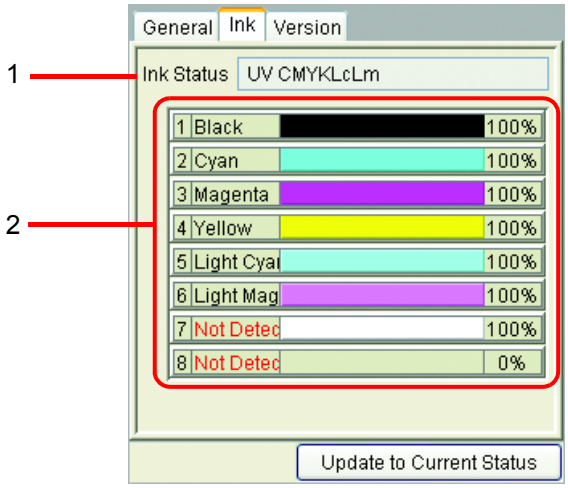
Status	Conditions
Not ready	Initialization is active to start up the printer. Do not run the printer for outputting.
Cover open	The front cover of the printer is raised. Close the front cover.
Local idle	The printer is in local condition. The printing is not available. Set the printer remote mode for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

Display the printed out length while printing.

“Ink” information

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



1. Ink Status

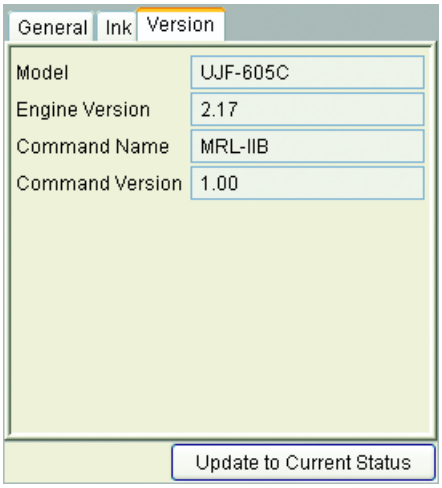
Display the ink set name.

2. Ink color and remaining level for each slot

Display the ink color and remaining level for each slot.

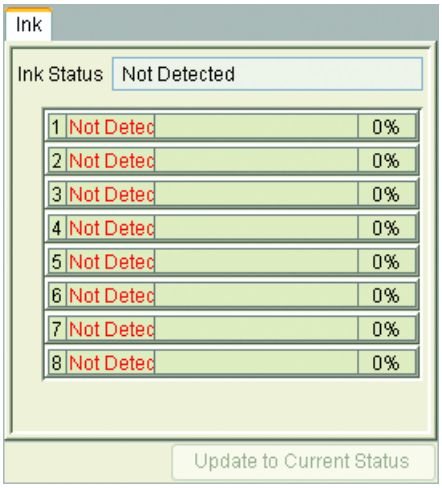
“Version” information

The version information of the printer is displayed.



When the Output Port is without IEEE1394

“Ink” information



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