

**MUTOH**

**OPERATION  
MANUAL**

**Layout and Print Tool**

Read This Manual Before Using The Application

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# 1 Introduction

This manual explains the operation procedure for Layout and Print Tool, which enhances the direct-to-garment printing (referred to as "Layout Tool").

Layout Tool enables:

- Easy printing operation corresponding to printer's platen size
- White ink printing

For the details, see *VJ-405GT Layout and Print Tool White Printing Guide*.

For the printer operation, garment loading and ink handling, see the printer's operation manual.

To define a new custom template, see the operation manual of Platen Edit Tool.

The name, design and specifications of Layout Tool are subject to change without notice.

Windows described in this document are registered trademarks of US Microsoft Corporation in US and other countries.

## 2 Operating Environment

This manual describes Layout Tool Ver.3.2.0.

Before use, make sure the following Windows driver is already installed.

The supported versions and functions for Layout Tool are as follows:  
Layout Tool is compatible with the driver system requirements.

Printer Model	Driver Version	White Ink Printing
VJ-404GT	1.02 or Later	Not Available
VJ-405GT	1.02 or Later	Available

\*The procedures to use white ink in this document are not applied for VJ-404GT.

The supported Windows versions are as follows.

Install the latest service pack.

Windows Vista	Service Pack 2 or Later [32bit/64bit]
Windows7	Service Pack 1 or Later [32bit/64bit]
Windows8/8.1	[32bit/64bit]
Windows10	[32bit/64bit]

The supported languages are as follows:

Japanese
English
Chinese
Korean

### NOTE

Following restrictions apply depending on the OS version of your computer.

N/A=not available, restriction=restriction, ✓=available without restriction

	Windows				Details
	Vista	7	8.1	10	
PostScript fonts	N/A	N/A	✓	✓	For details, see Insert Text.
PDF Image File	N/A	N/A	restriction	✓	For details, see 3-1.

### 3 Image Formats

The available image format is as follows:

See the note below for more details.

PNG (.png) \*1, \*2

Bitmap (.bmp)

JPEG (.jpg) \*3

TIFF (.tif) \*2,\*3

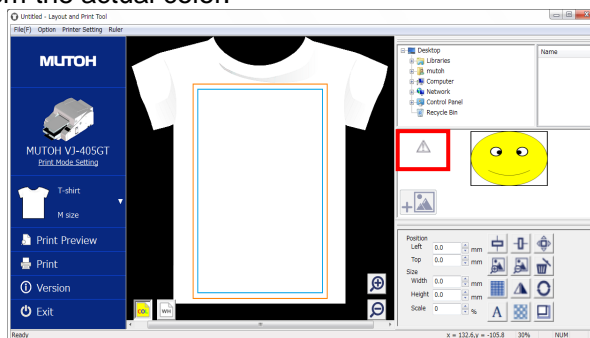
These files appear in the Folder Tree and the Image Preview on the right side of the screen.

#### NOTE

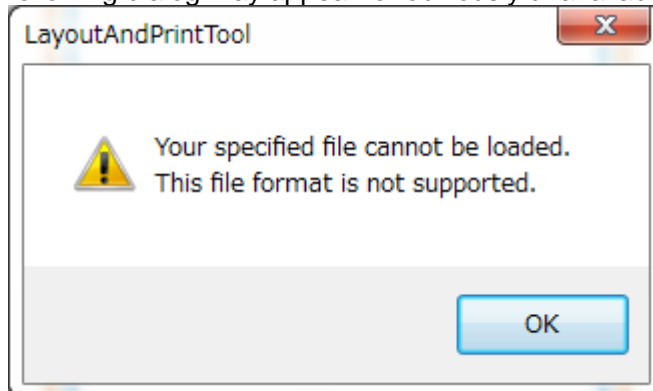
- Use 24-bit RGB color model for the color data.
- \*1 PNG format is the recommended format for Layout Tool.
- \*2 RGBA color model (with an alpha channel) can be used with RGB color model.
- \*3 CMYK color model data is not supported by Layout Tool.

When selecting the file, if the mark shown to the right appears on the preview pane, this data format is not supported by Layout Tool.

If you print the unsupported file, the printing may not be available depending on formats or the printed color may differ from the actual color.



The following dialog may appear for obviously unavailable files.



When this dialog appears, convert the file to PNG format.

### 3-1 PDF File

If you are using Windows 8.1 or Windows 10, you can also use the following image format by drag and drop.

PDF (.pdf)

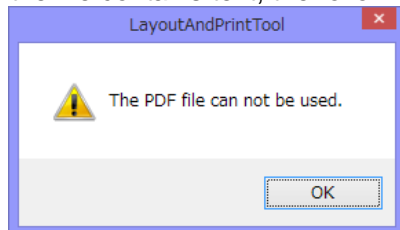
PDF files do not appear in the Folder Tree and the Image Preview on the right side of the screen. Select a PDF file from Windows Explorer.

If a PDF file contains more than one page, the following dialog will appear. Select the page which you want to use and click **Apply**.



#### NOTE

- In **Windows 8.1**, a PDF file containing text cannot be used. If the file contains text, the following dialog will appear.



- If a text is contained in the first page of the PDF file, the above dialog will appear. If it is contained in other than the first page, the appropriate page will be skipped and the rest of the pages will be loaded.

When loading a PDF file containing multiple pages, please note the followings:

- Once started, you cannot interrupt loading the PDF file.
  - An Out of Memory error may occur while loading the PDF file.
  - Do NOT load a document PDF file such as user guide.
- When converting PDF to image file, the image file resolution may be decreased. Use the original image file, if you have saved it.
  - An embedded profile such as color profile cannot be correctly applied.

## 4 Print Mode


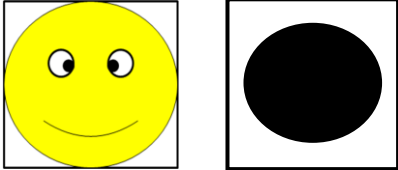
Layout Tool offers three type of print mode: Color Printing, White Printing and Color-on-White Printing.

Each mode has different function:

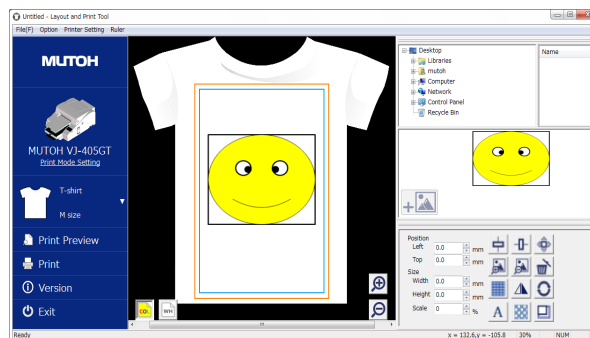
Color Printing	Prints color data on white or light-colored garment
White Printing	Prints white data on dark-colored garment
Color-on-White Printing	Prints white data first as under base and then prints color data on dark-colored garment

White Printing is only available for the printer with white ink.

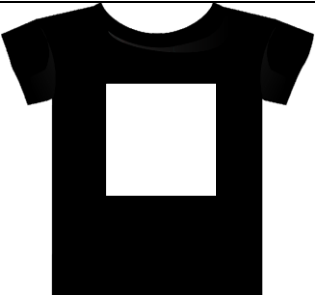
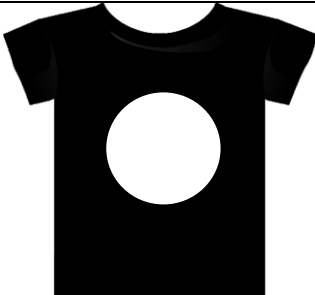
In white data printing, the end result varies depending on the original image data structure.

Popular image data	BMP, JPEG, TIFF, PNG (no transparency contained) 
Image data with transparency	TIFF, PNG with transparency contained  Transparency or opacity of a color should be defined in the alpha channel of the image data.

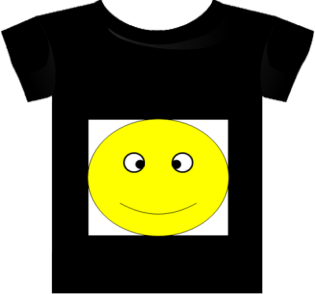

### Editing Screen



White Data Printed Result

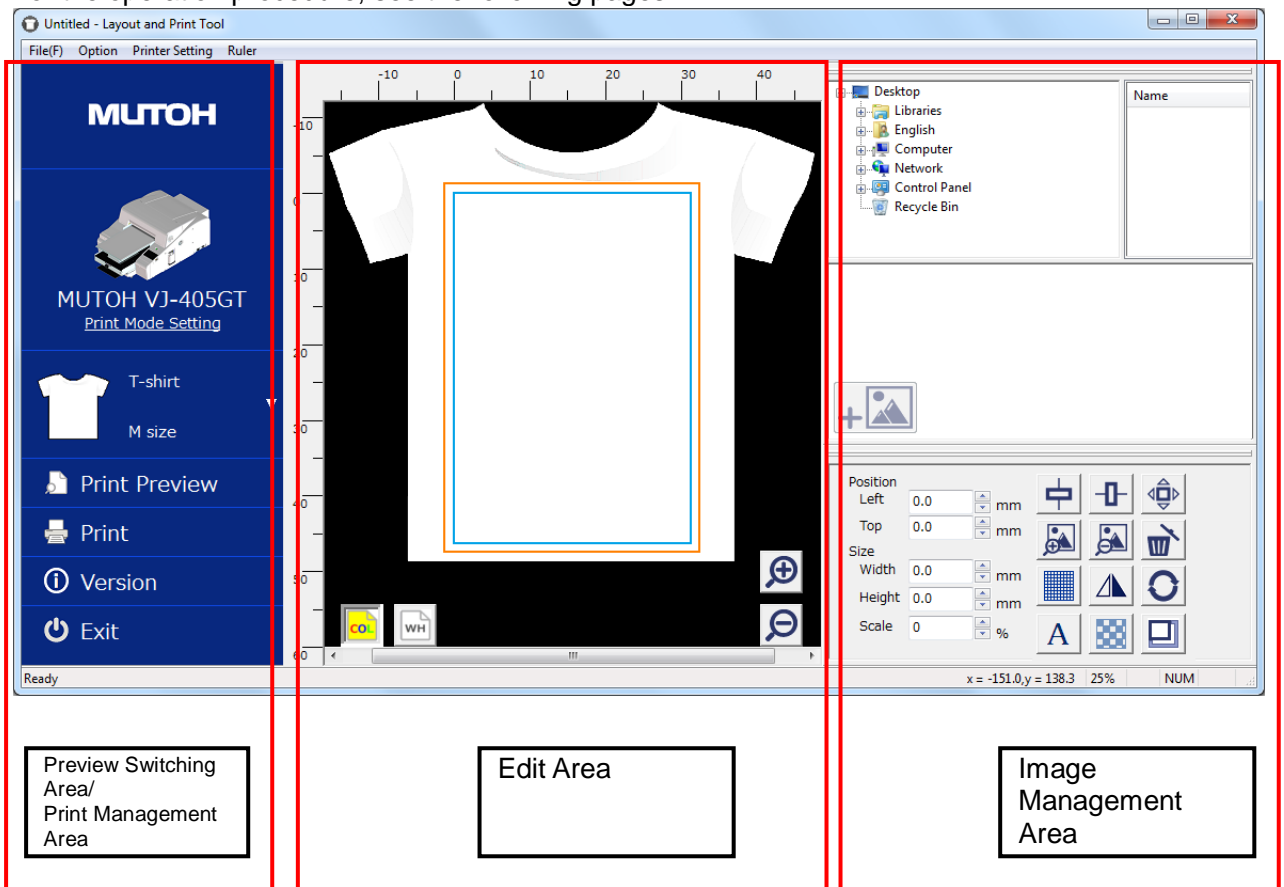
Popular image data	Image data with transparency
	

Color-on-White Printed Result

Popular image data	Image data with transparency
	

## 5 Main Screen

Below is the main screen of Layout Tool.  
For the operation procedure, see the following pages.



Preview Switching Area/Print  
Management Area

- Displays the printer driver properties
- Switches the preview
- Starts printing
- Select the platen size.

Edit Area

- Displays the inserted image.
- Use as preview.

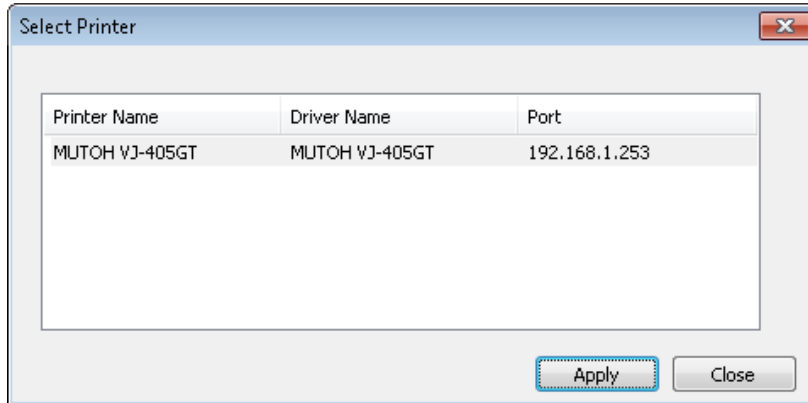
Image Management Area

- Insert the image
- Change the image size and position.

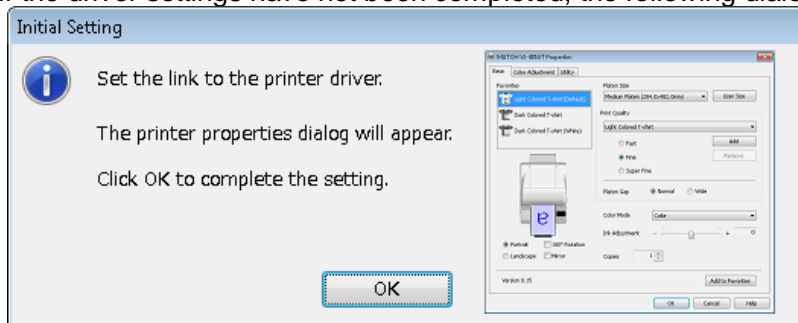
## 6 Basic Operation

### 6-1 Initial Setting (for Initial Startup only)

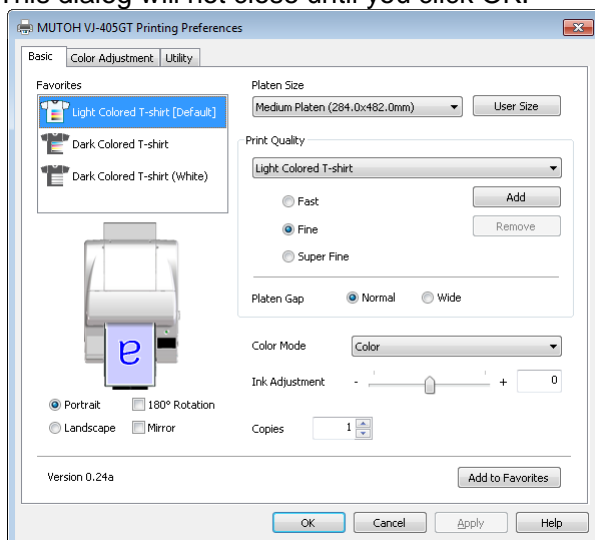
Before running the Layout and Print Tool for the first time, make sure to install the printer driver. The following dialog appears to select the printer driver when you first run this application. This printer driver will be automatically selected from the next time.



If the driver settings have not been completed, the following dialog will appear. Click OK.

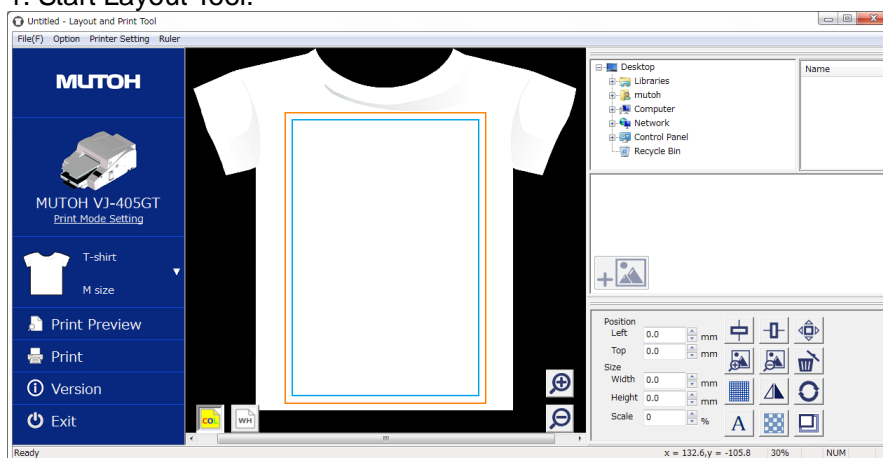


Then, the printer properties will open. Click OK.  
This dialog will not close until you click OK.

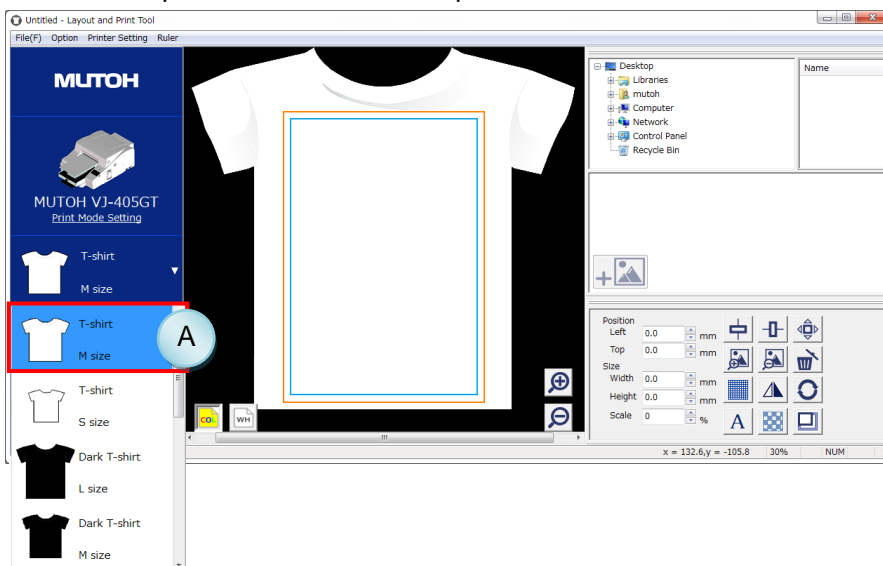


## 6-2 Color Printing

### 1. Start Layout Tool.



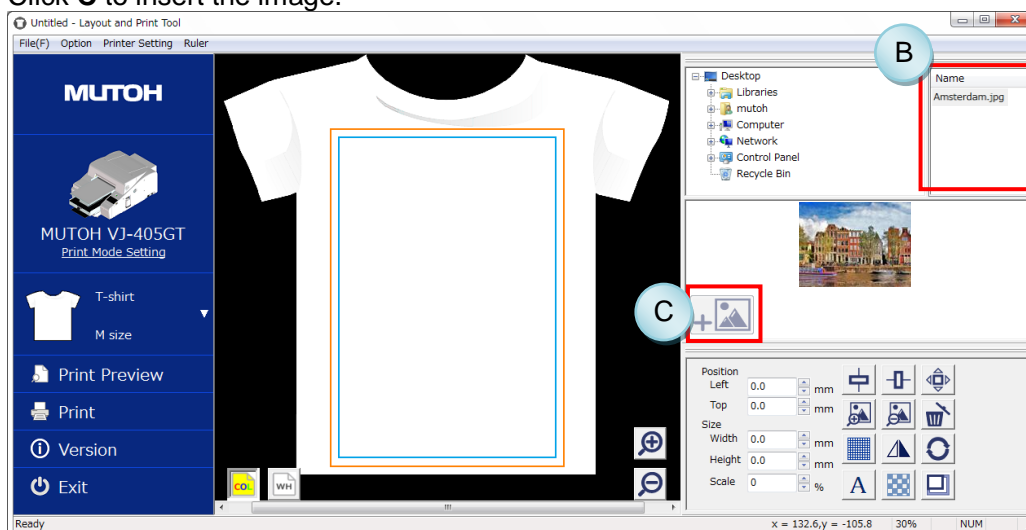
### 2. Select the platen size from the drop-down list of **A**.



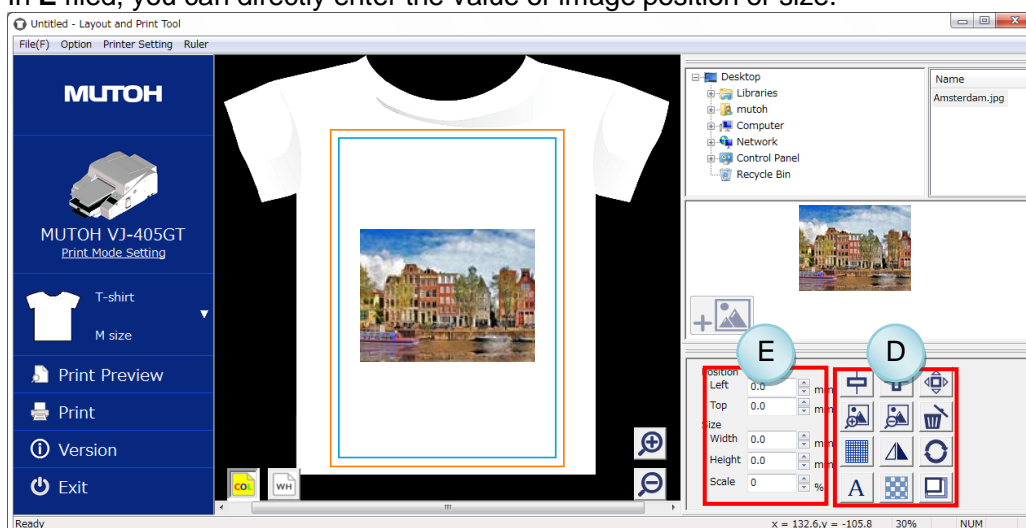
### NOTE

- When a new custom template is created in Platen Edit Tool, restart Layout Tool.

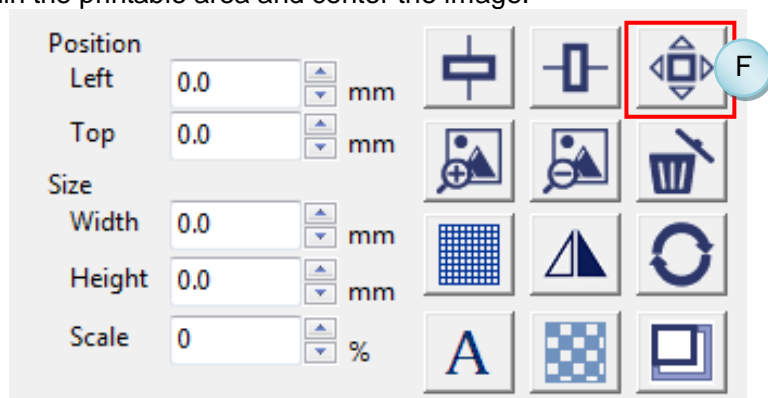
3. Select an image file from **B**.  
Click **C** to insert the image.



4. The inserted image can be moved with the mouse or by clicking **D** (Edit buttons).  
In **E** field, you can directly enter the value of image position or size.



5. If you use only one image, click **F** to optimize the image to the largest size such that fits entirely within the printable area and center the image.

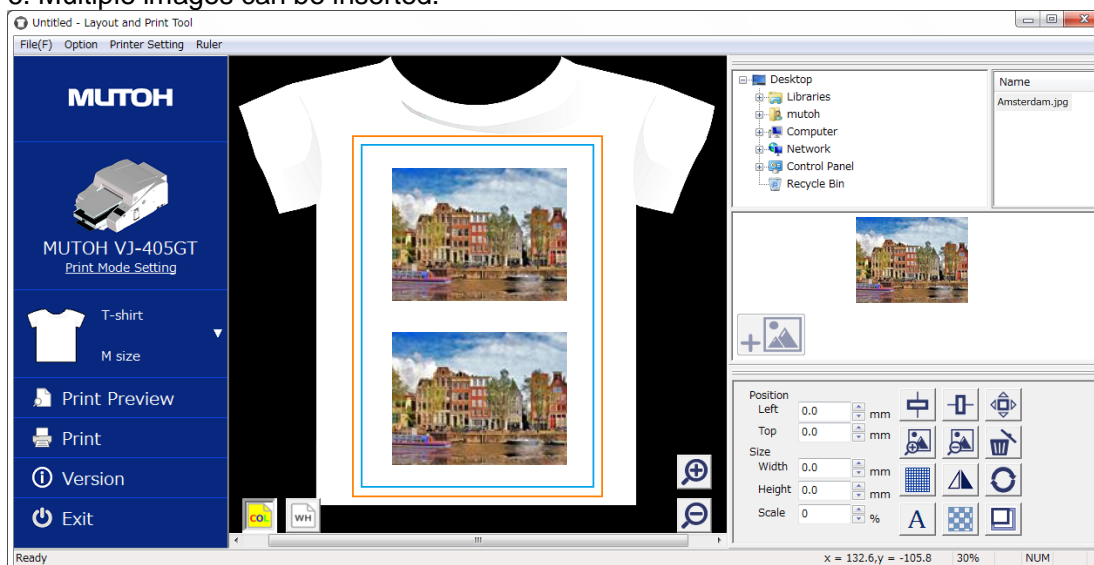


For the details, see 6. Functions.

#### NOTE

- The latest inserted image is the target for editing.
- If you click anywhere except for the inserted image, **E** and **D** become invalid. If so, click the target image again.

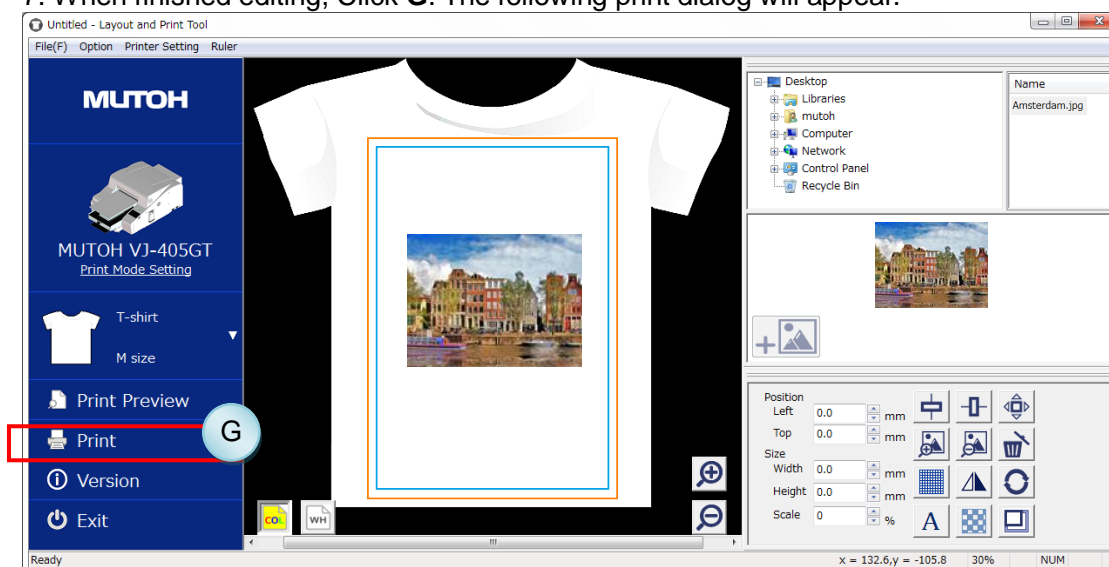
## 6. Multiple images can be inserted.



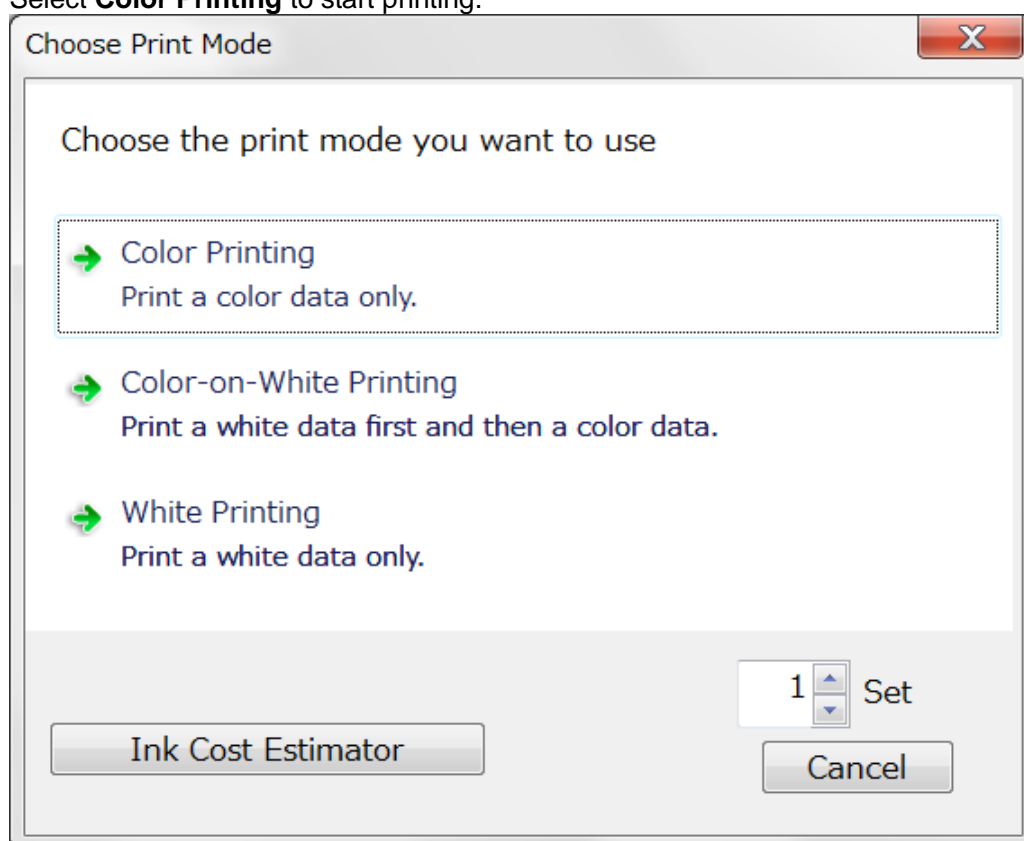
### NOTE

- The maximum number of image insertion depends on your PC capability.
- If you insert too many images or large images, the Layout Tool operation including printing may become slow.

7. When finished editing, Click **G**. The following print dialog will appear.



Select **Color Printing** to start printing.



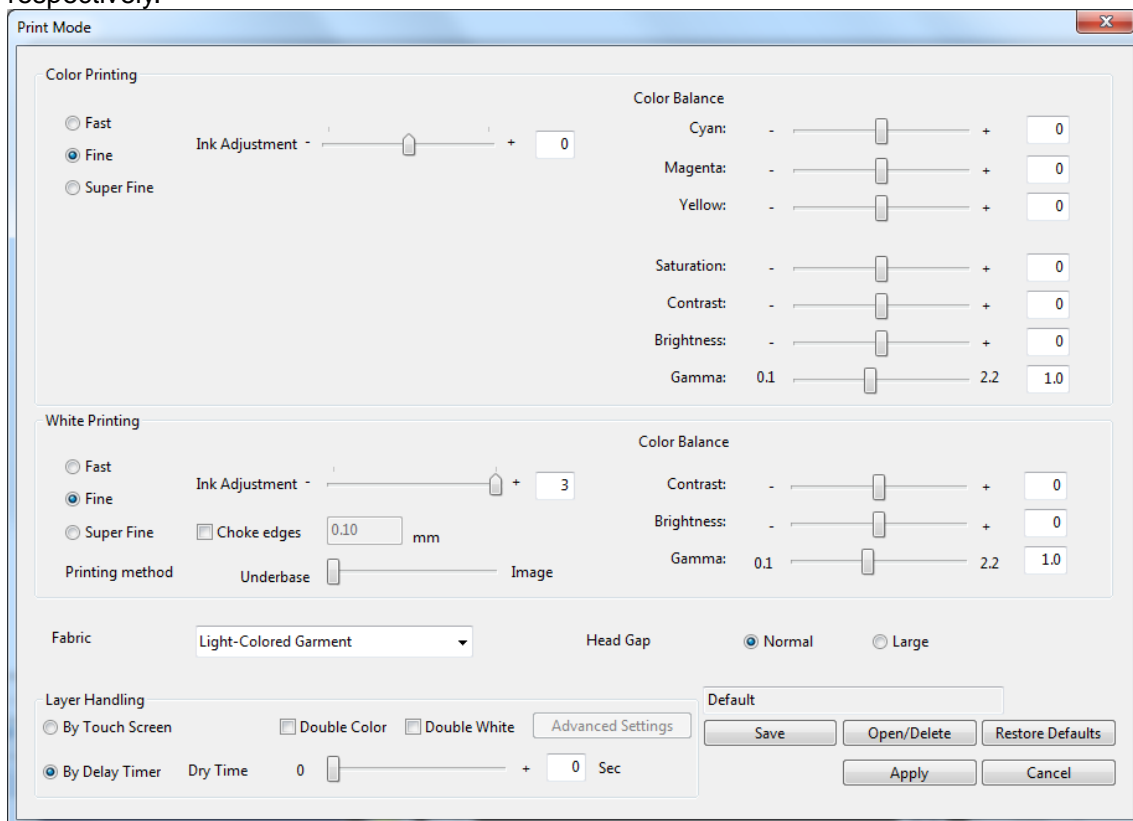
## 6-3 Change Print Quality

To change print quality setting, click **Print Mode Setting**.



The Print Mode setting dialog appears.

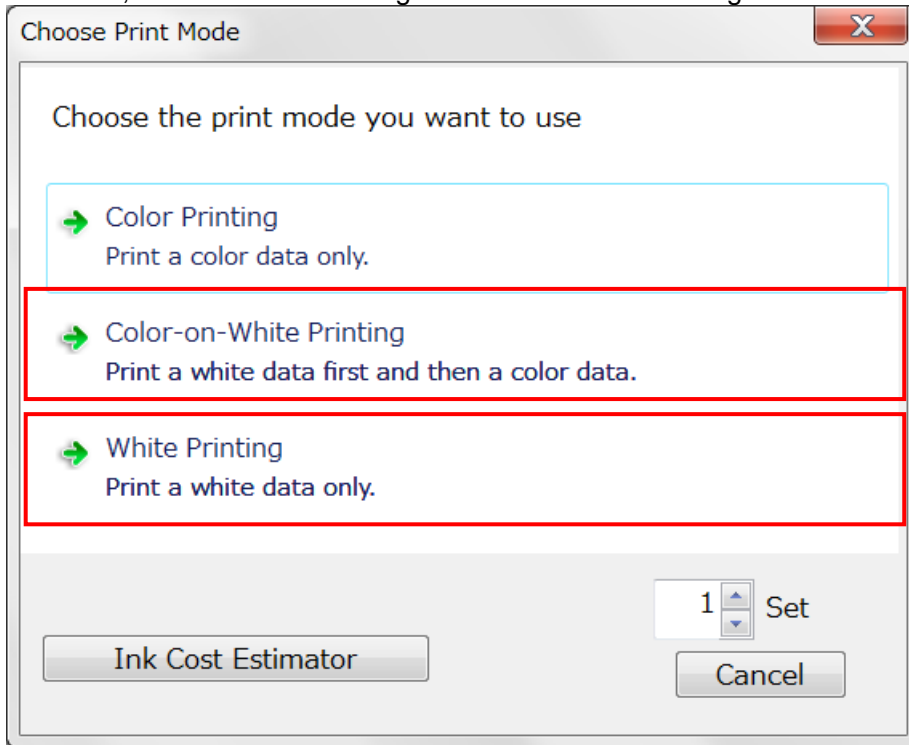
Print mode, ink density and color balance for color ink and white ink (and more) can be specified respectively.



## 6-4 White Printing

For white printing, basically follow the same color printing procedures as the above. Different steps may be required depending on the image data you want to use.

To print the data, choose White Printing or Color-on-White Printing.



For the details, see *VJ-405GT Layout and Print Tool White Printing Guide*.

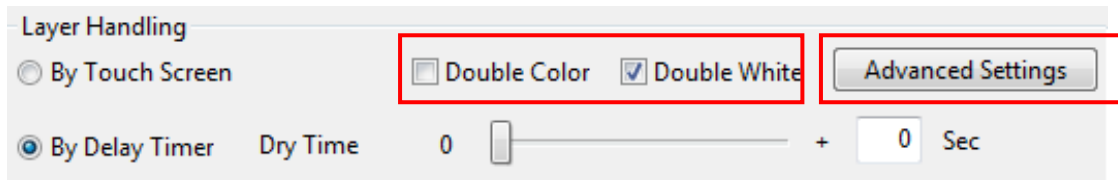
### NOTE

- The white image appears in color on the preview and will be printed with white ink.

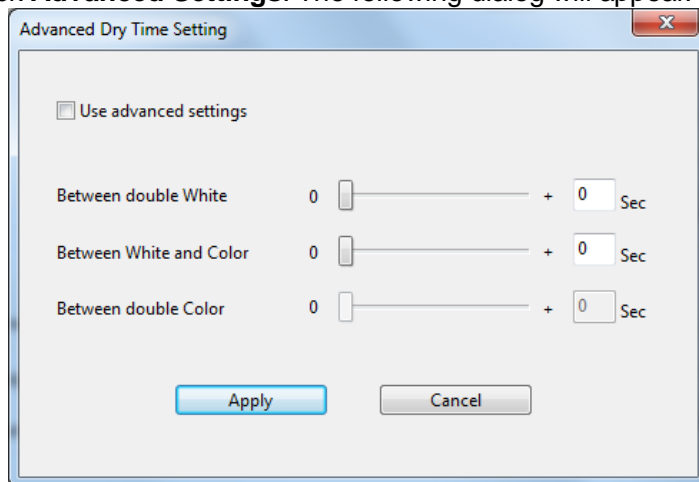
## 6-5 Drying Time Advanced Settings

When 'Double Color' or 'Double White' is enabled, you can individually specify ink drying time per layer.

In the Layer Handling option, if you check 'Double Color' or 'Double White', the Advanced Settings button will be enabled.

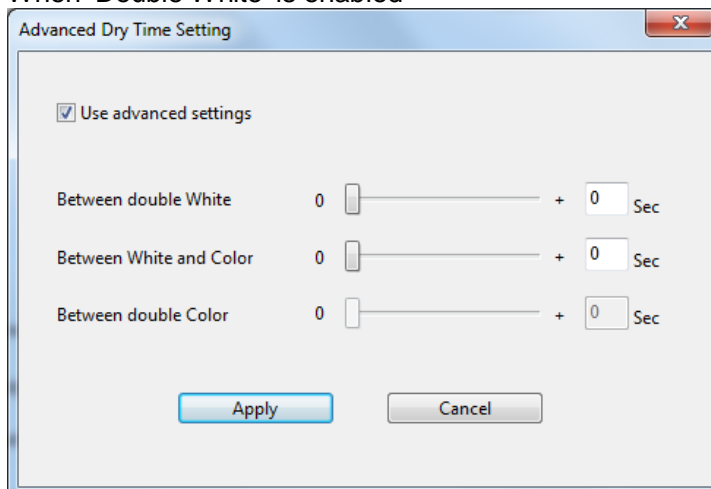


Click **Advanced Settings**. The following dialog will appear.



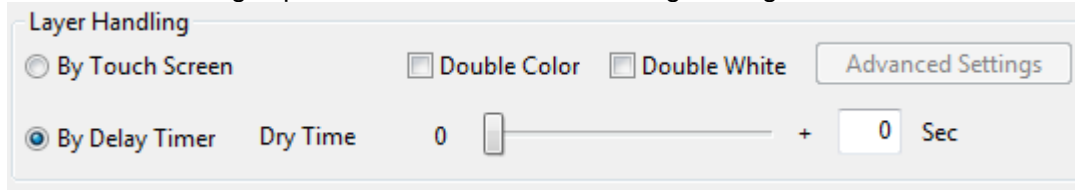
Check **Use advanced settings** and specify the ink drying time by slider or directly entering time.

When 'Double White' is enabled



If you check 'Double Color' in the Layer Handling option, the slider and input box for 'Between double Color' is also enabled.

If you uncheck both 'Double Color' and 'Double White', the Advanced Settings button will be disabled and the settings specified in the Advanced Settings dialog will be disabled accordingly.



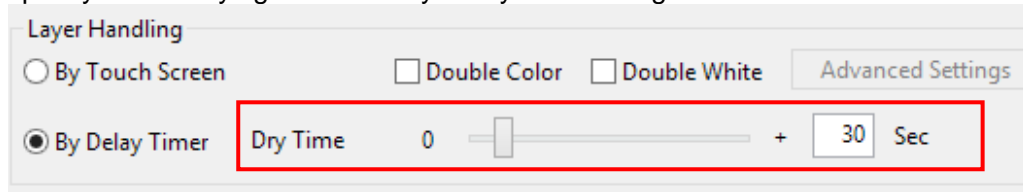
Layer Handling

☐ By Touch Screen ☐ Double Color ☐ Double White Advanced Settings

☒ By Delay Timer Dry Time 0 + 0 Sec

#### NOTE

In Color-on-White printing, if you do not use 'Double Color' or 'Double White' option, specify the ink drying time from By Delay Timer using slider.



Layer Handling

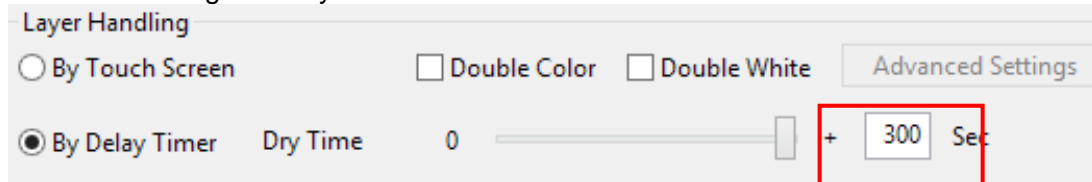
☐ By Touch Screen ☐ Double Color ☐ Double White Advanced Settings

☒ By Delay Timer Dry Time 0 + 30 Sec

#### NOTE

Drying time can be specified up to 300 seconds by slider and up to 600 seconds by directly entering time.

Maximum setting value by slider

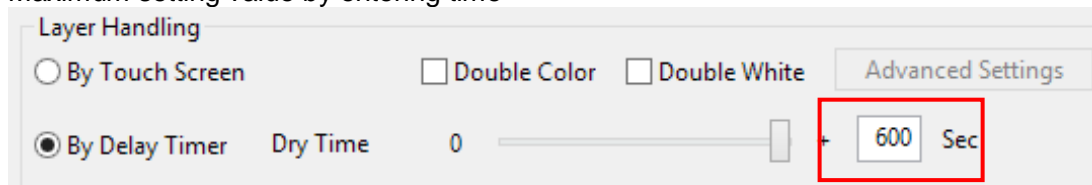


Layer Handling

☐ By Touch Screen ☐ Double Color ☐ Double White Advanced Settings

☒ By Delay Timer Dry Time 0 + 300 Sec

Maximum setting value by entering time



Layer Handling

☐ By Touch Screen ☐ Double Color ☐ Double White Advanced Settings

☒ By Delay Timer Dry Time 0 + 600 Sec

## 7 Ink Adjustment Print

You can determine the appropriate print quality or ink density before printing with a new garment type. To check the print results, see 7-5 How to Check the Ink Adjustment Test Patterns.

Ink adjustment print supports the following fabric type.

	VJ-404GT	VJ-405GT
Light-Colored Garment	✓	✓
Dark-Colored Garment (White)	-	✓
Dark-Colored Garment (Color on White)	-	✓
Light-Colored Polyester	✓	✓

### NOTE

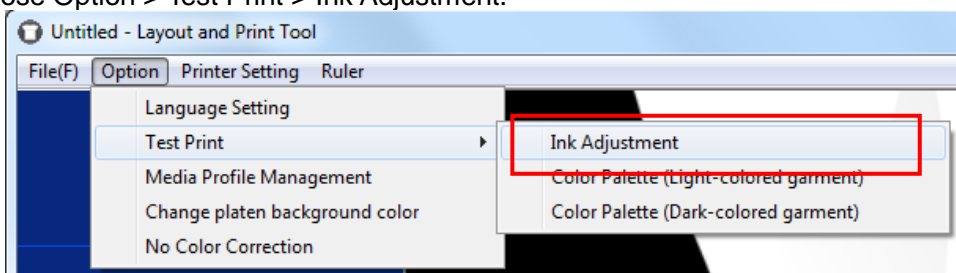
Once you have determined the appropriate ink density and print mode for the fabric, you can save the setting under a new name.

For details, refer to 8-17 Save function on page 51.

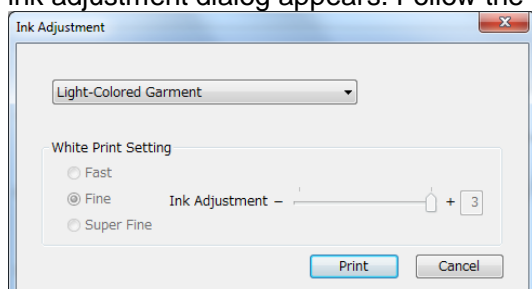
### 7-1 Ink Adjustment Test Print

#### 1). Open Ink Adjustment Dialog

Choose Option > Test Print > Ink Adjustment.



The ink adjustment dialog appears. Follow the procedures below.



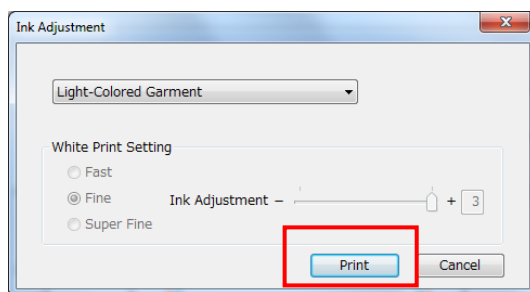
**NOTE**

- You should move the platen to the print start position after white printing for dark-colored garment (Color on White) only. Follow the dialog instructions.
- The size of this test print is 266mm x 120mm. Use the Mutoh Platen M or larger one. The patch pattern is printed with all ink density levels per print mode. Depending on a type of garment being used, ink may stain on the platen through the garment. In that case, wipe off the ink stains on the platen

## 2). Color Ink Adjustment

<Light-Colored Garment/Light-Colored Polyester>

1. Print the ink adjustment patterns.

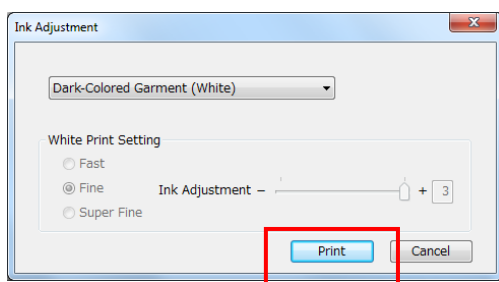


2. Check the printed patterns to determine the appropriate print mode (fast/fine/super fine) and ink density.
3. Apply the settings.

## 3). White Ink Adjustment

<Dark-Colored Garment (White)>

1. Print the ink adjustment patterns for white printing.

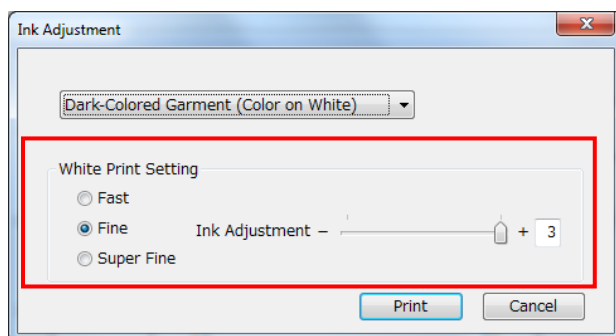


2. Check the results to find the appropriate print mode and ink density for white printing. Apply the settings to the menu of Dark-Colored Garment (Color on White).

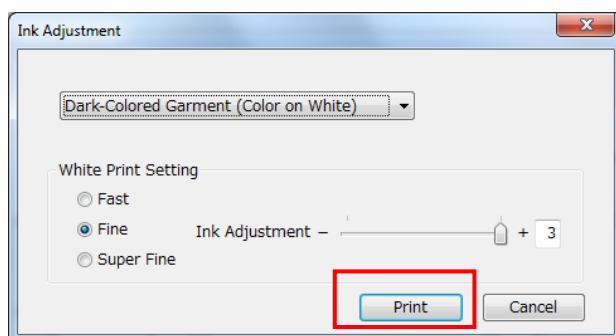
#### 4). White& Color Ink Adjustment

<Dark-Colored Garment (Color on White)>

1. Check the results to find the appropriate print mode and ink density for white printing.  
Apply the settings to the menu of Dark-Colored Garment (Color on White).



2. Print the ink adjustment patterns for color-on-white printing.



2. Check the results to find the appropriate print mode and ink density for color-on-white printing.
3. Select the setting for both white printing and color-on-white printing.
4. Apply the settings.

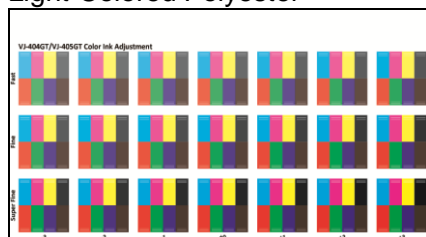
## 5). How to Check the Ink Adjustment Test Patterns

Here are examples of the test patterns.

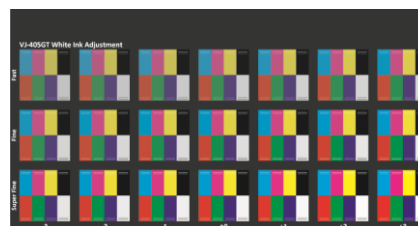
Choose the appropriate print mode and ink density for your garment.

### Pattern Example:

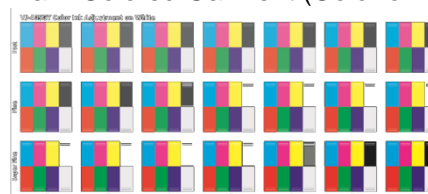
Light-Colored Garment  
Light-Colored Polyester



Dark-Colored Garment (White)



Dark-Colored Garment (Color on White)



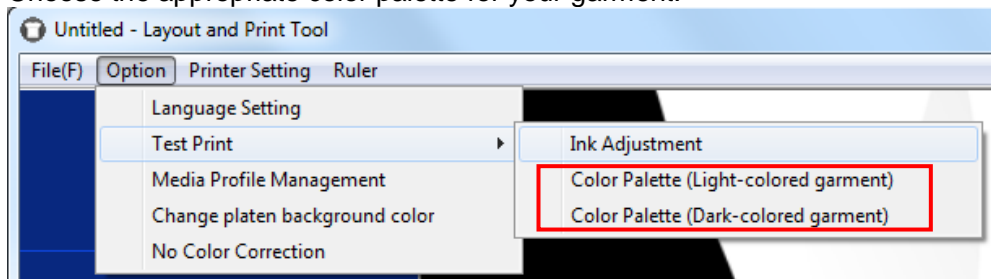
### **NOTE**

Also check the back side of the test patterns to determine the appropriate ink density.

## 7-2 Color Palette

After the ink adjustment has been done, use the color palette printing to see how the RGB color on your monitor appears on the garment.

Choose the appropriate color palette for your garment.

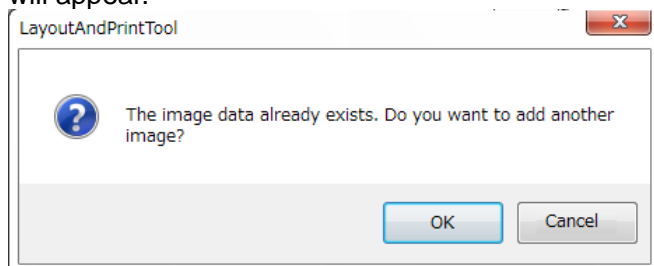


After selecting, the color palette will be inserted to the Edit Area. Follow the basic procedure to print the color palette pattern.



### NOTE

- The image size is the same as platen M size. Please adjust the image size to fit on your garment.
- You can print the color palette pattern and an image data together on the garment.
- If an image data is already inserted to the Edit Area, the following confirmation dialog will appear.

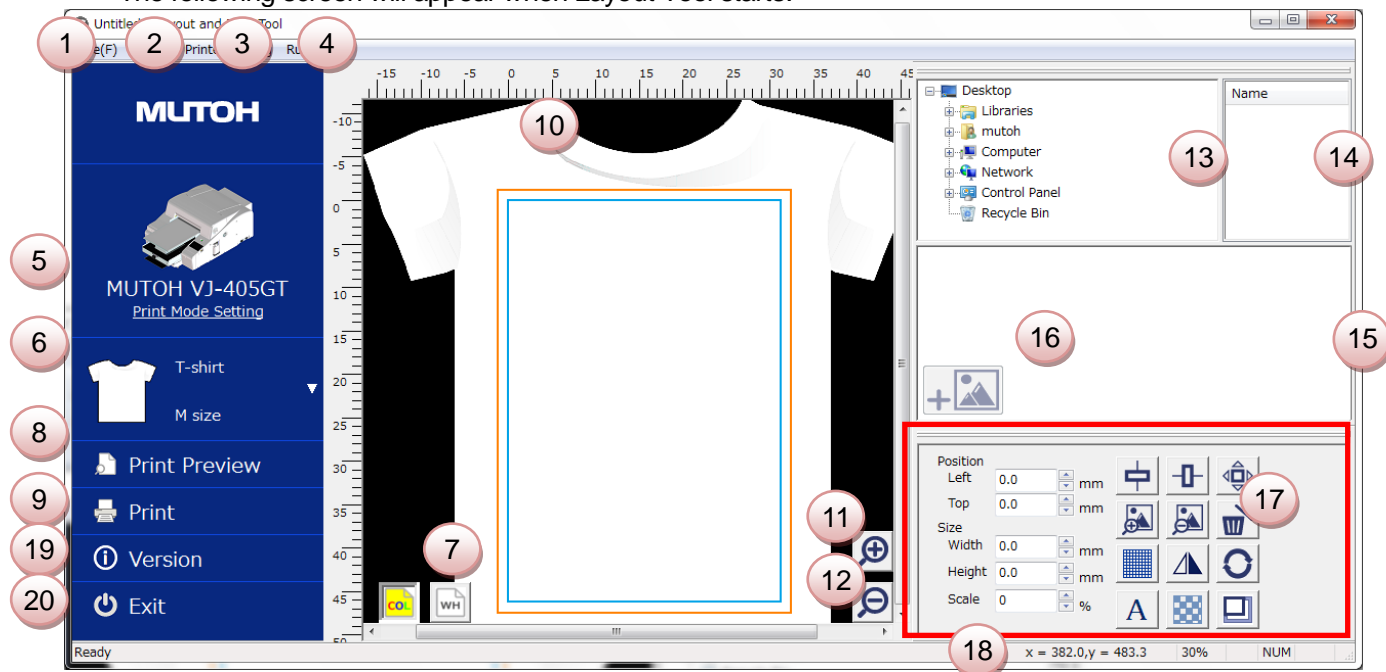


- The text color and font printed below each palette are different between the light-colored garment and dark-colored garment.

## 8 Functions

### 8-1 Main Screen

The following screen will appear when Layout Tool starts.

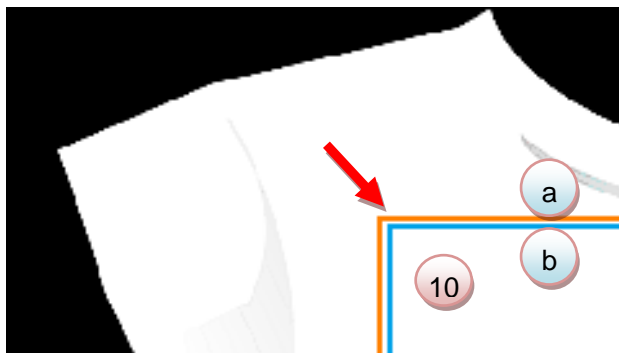


1	File Menu	Create a new file, load an edited file and save a file.
2	Option Menu	Opens Language Setting menu.
3	Printer Setting Menu	Opens Select Printer menu.
4	Ruler Menu	Show or hide rulers. Show or hide guides.
5	Print Mode Setting	Opens Print Mode Setting dialog.
6	Platen Size	Choose a platen size you want to use from the list.
7	View White/ View Color	Switch the view in Edit Area between white image and color image.
8	Print Preview/ Edit Mode	Switch the Edit Area between the print preview and edit mode.
9	Print	Print from the printer you selected.
10	Platen Outer Frame/ Printable Area	Indicates the outer frame of the platen with orange line and printable area with blue line.
11	Zoom in	Zoom in the Edit Area.
12	Zoom out	Zoom out the Edit Area.
13	Folder Tree	Displays the folder tree to select a file.
14	Image File List	Displays a list of image files to select from.
15	Image Preview/ Text Edit Window	Displays the Image Preview of the file selected in the Image File List (14), or the Text Edit Window to insert text.
16	Insert the image	Insert the selected image to the Edit Area. Insert a text.

17	Edit Buttons	Displays edit buttons. For details, see 8-11 Align the image 8-12 Image Preview/ Text Edit Window. 8-13 Insert Text 8-15 Make Specific Color Transparent
18	Information Field	Displays current mouse position and the zoom percentage value of the Edit Area.
19	Version	Displays the application version.
20	Exit	Exit the Layout Tool.

## 8-2 Platen Outer Frame & Printable Area

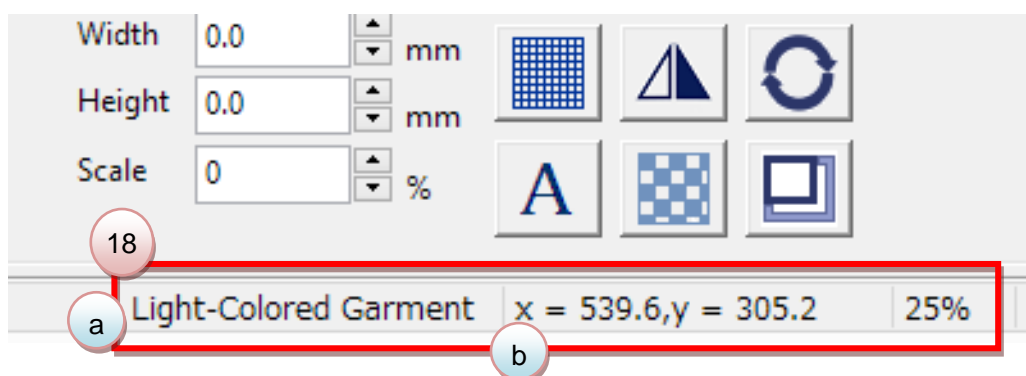
The outer frame of the platen is indicated with orange line and the printable area is indicated with blue line. The upper left corner of the blue line will be the origin of the image.



10	a	Platen outer frame(orange)	the outer frame of the platen
	b	Printable area (blue)	Indicates the printable area.

### 8-3 Information Field

The current mouse position and zoom percentage value of the Edit Area are displayed at the bottom of the Main Screen.



\*Unit: mm

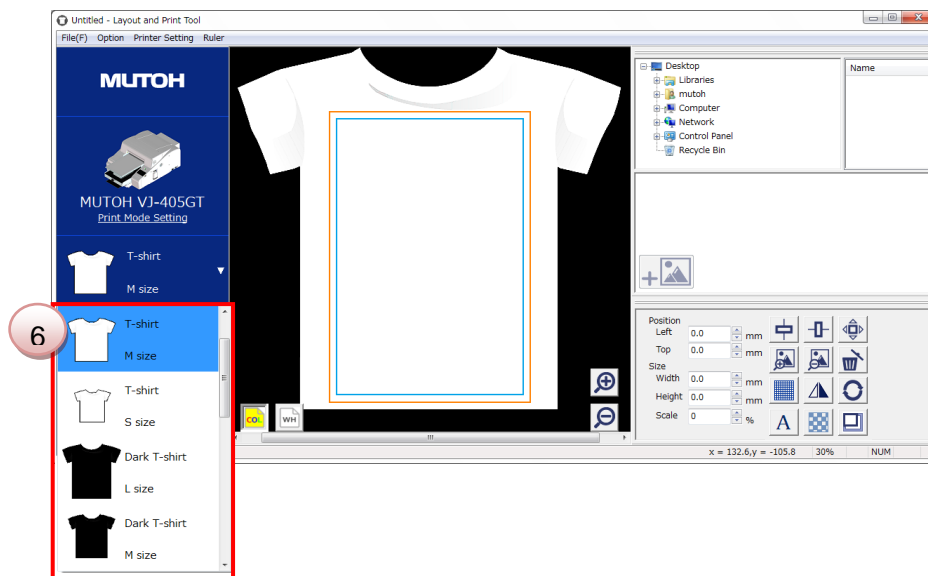
18	a	Media Type	Displays the selected media type in the Print Mode setting dialog.
	b	Mouse position	Indicates the exact X and Y position of your mouse from the upper left corner of the printable area.
	c	Zoom percentage	Indicates the current zoom percentage of the Edit Area.

#### NOTE

- \*1 When selecting a dark-colored garment profile for T-shirt platen (platen for light-colored garment) or selecting a light-colored garment profile for Dark T-shirt platen, Media Type will appear in bold red.  
This display (in bold red) does not apply to the added profiles in Media Profile Management.

## 8-4 Select the Platen

Click the drop-down list of **6** and choose the platen size that you installed on the printer.



Available Platen Size:

Platen Type	Size (mm)	
	Width	Height
Platen L	380	560
Platen M	310	460
Platen S	230	330

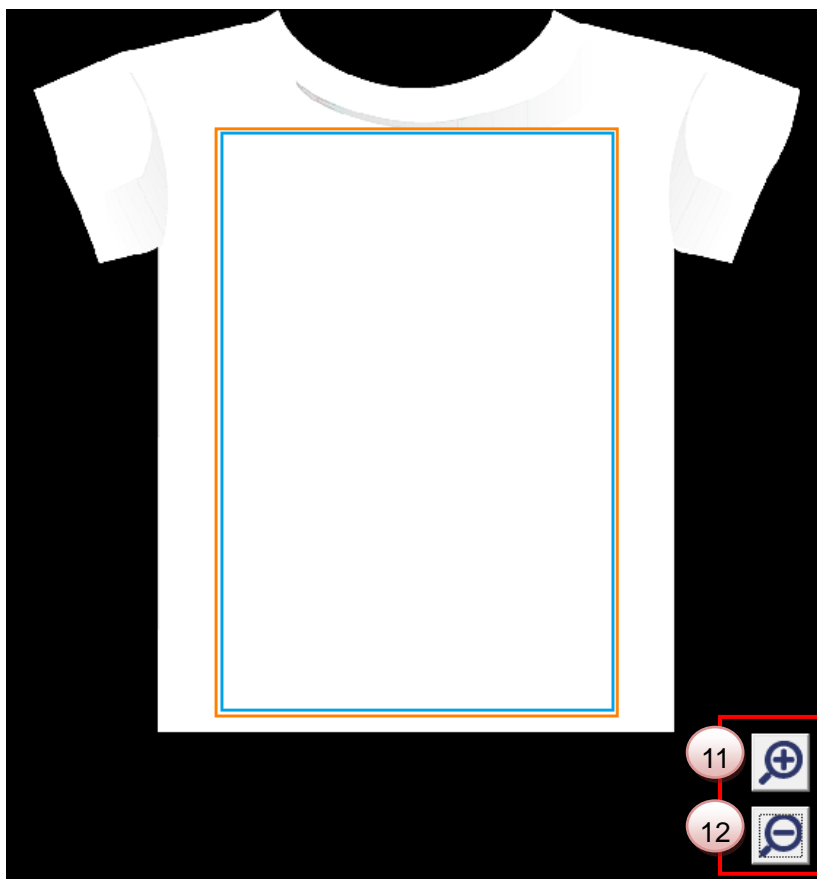
The platen icon shows the garment loading direction as looking from the printer front side.  
The previously selected platen is always displayed after starting Layout Tool.

### NOTE

- You can create a user defined template in Platen Edit Tool. For the details, see the operation manual of Platen Edit Tool.

## 8-5 Zoom Edit Area

To zoom Edit Area, click **11** (+ button) to zoom in and click **12** (- button) to zoom out.



The percentage is:

25%, 30%, 35%, 40%, 45%, 50%, 75%, 100%

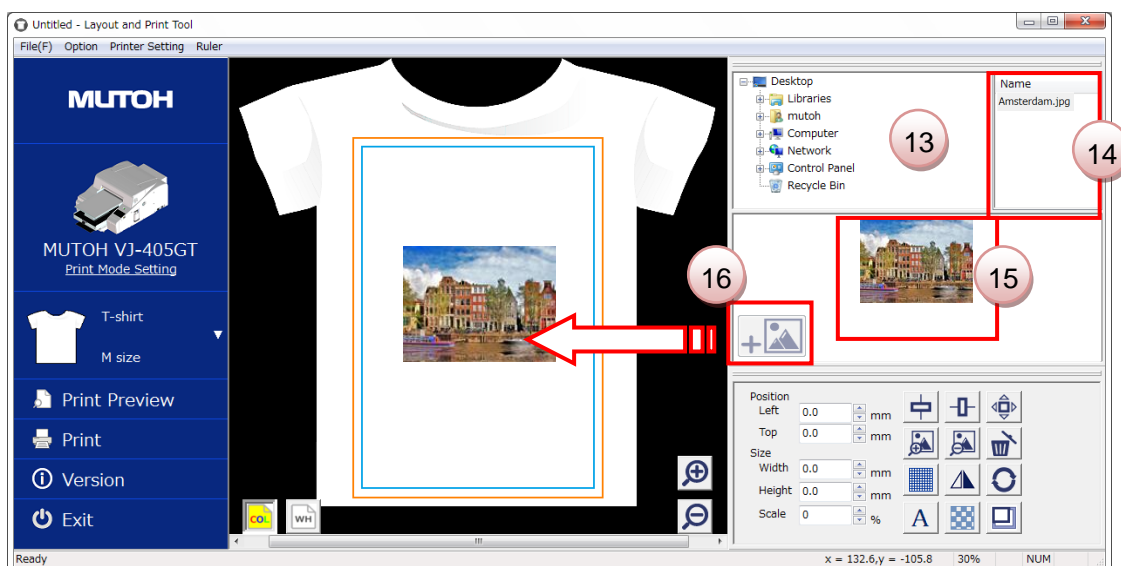
## 8-6 Insert the Image

This section explains how to insert an image to the Edit Area.

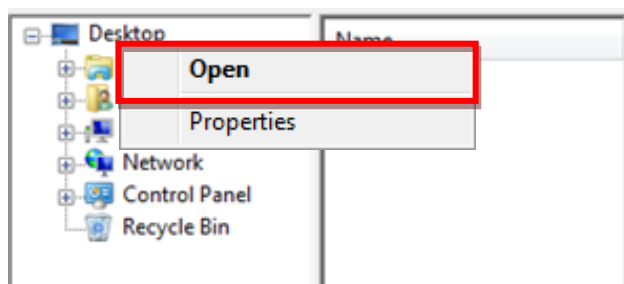
Select the folder of the image file from **13**. The list of image files will be displayed in **14**.

Use one of the following methods to insert the image.

- Double-click the file in **14**.
- Drag and drop the image from **15** using mouse.
- Click on the image file in **14**, and then click **16**.
- Directly drag and drop files from Explorer (you can insert multiple files into Edit Area).



To edit an image file in graphic software, right click on the folder in **13**, and click **Open** to open Explorer.



## 8-7 Resize & Move Image

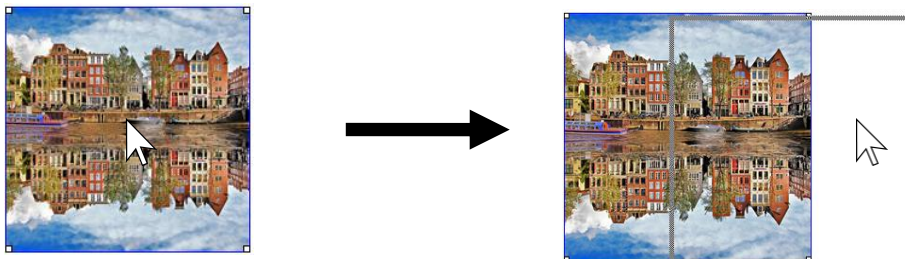
To resize or move an image, click on the image so that corner handles appear on each corner of the image (shown in red box below). If multiple images are inserted to the Edit Area, click the image that you want to resize or drag.



To increase or decrease the size, drag a corner handle away from or toward the center of the image so that a gray line appears to indicate the resized image size.

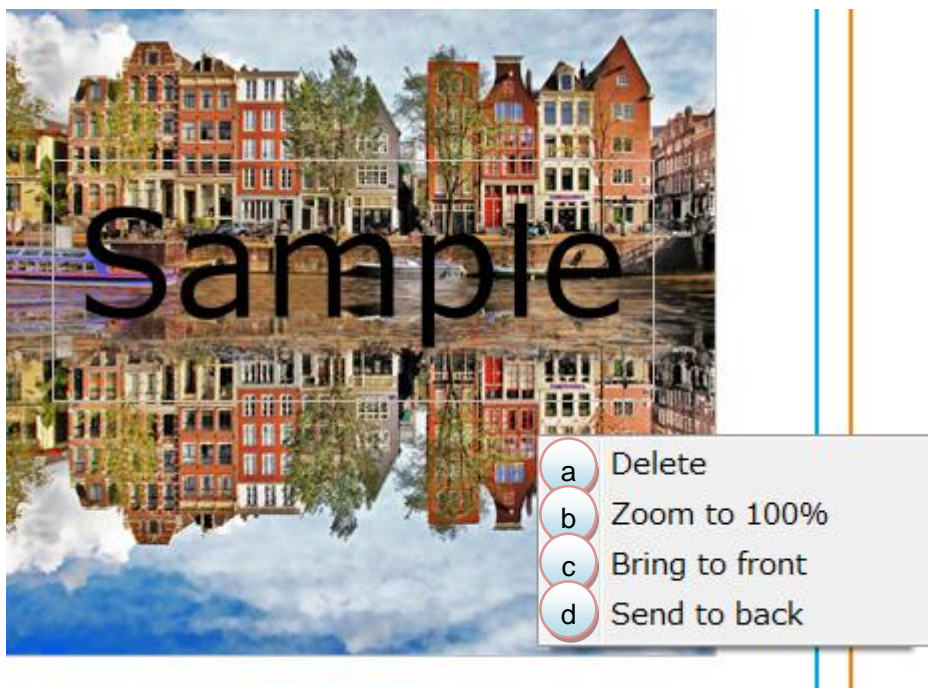


To move an image, click on the edge of the image (except corner handles) and drag to the area you want to move. A gray line appears to indicate the moved location.



## 8-8 Image Edit Menu

The edit menu appears when you right-click on the image in the Edit Area. Four editing functions are available; Delete, Zoom to 100%, Bring to front, Send to back. When more than 1 image is inserted to the Edit Area, “Bring to front” and “Send to back” functions will be valid.



a	Delete	Delete the image you selected.
b	Zoom to 100%	Restore the zoom to 100% after rescaling.
c	Bring to front	This function is valid when you inserted more than 1 image to the Edit Area. To bring the image to the front of layering images, right-click on the image and click <b>Bring to front</b> .
d	Send to back	This function is valid when you inserted more than 1 image to the Edit Area. To send the image to the back of layering images, right-click on the image and click <b>Send to back</b> .

## 8-9 View Color/View White

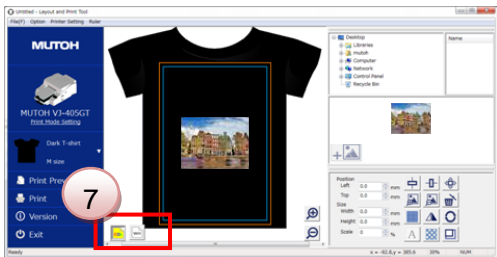

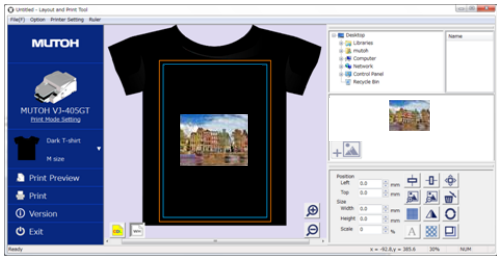

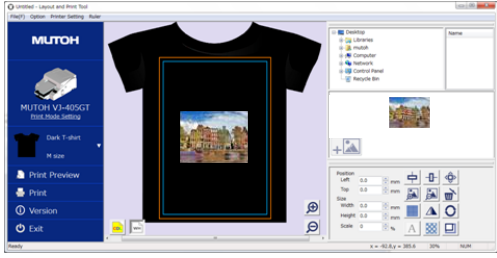

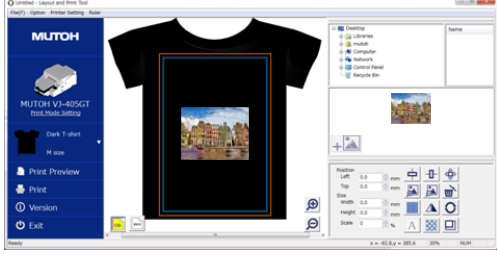

Switch the preview between View Color and View White to edit the image.

To switch the preview, click **7 View White/View Color**.

For Color Printing, insert color image in View Color.

For White Printing, insert white image in View White.

For Color-on-White Printing, insert color image in View Color and insert white image in View White.

Edit Area	Data	Print Mode
	<p>View Color</p> 	Color Printing
	<p>View White</p> 	White Printing
	<p>View White</p> 	Color-on-White Printing
	<p>View Color</p> 	

## 8-10 Print Preview Mode/ Edit Mode

Switch the Edit Area between the Print Preview Mode and Edit Mode.

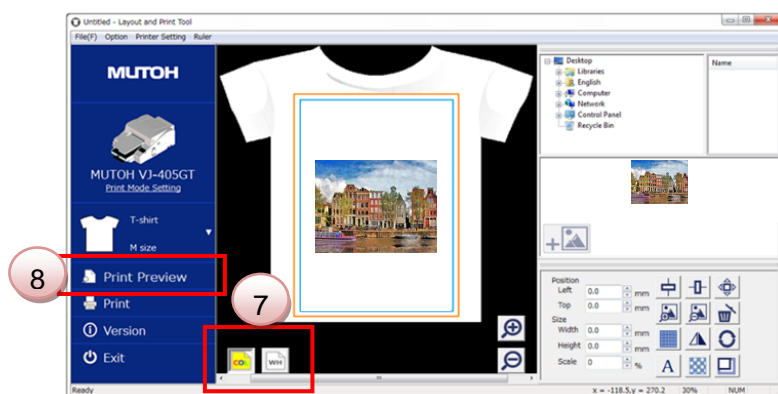
To switch the mode, click **8 Print Preview/ Edit Mode**.

Use Edit Mode to edit an inserted image. After editing, click **8** to change the Edit Area to Print Preview Mode to see how the design will look when you print it. In Print Preview Mode, you cannot edit the image.

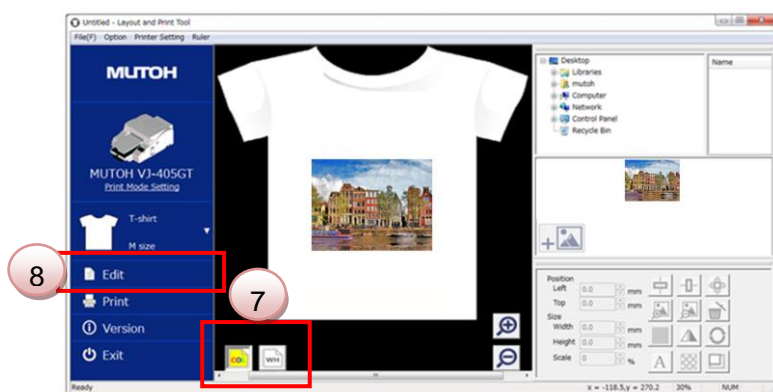
To switch the preview between View Color and View White, click **7**.

To edit the image, click **8** to change the Edit Area to Edit Mode.

### Edit Mode



### Print Preview Mode



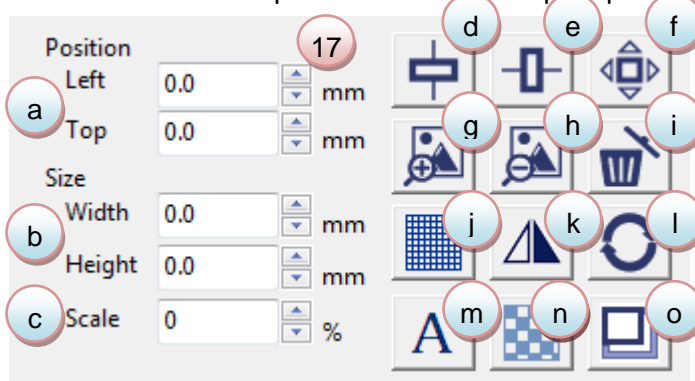
### NOTE

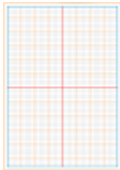
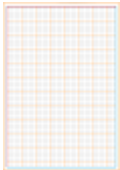

- For the preview for white printing, see VJ-405GT Layout and Print Tool White Printing Guide.

## 8-11 Align the Image

Align the image placement with **17** Edit Buttons.

The value below is equivalent to the actual print position and size.




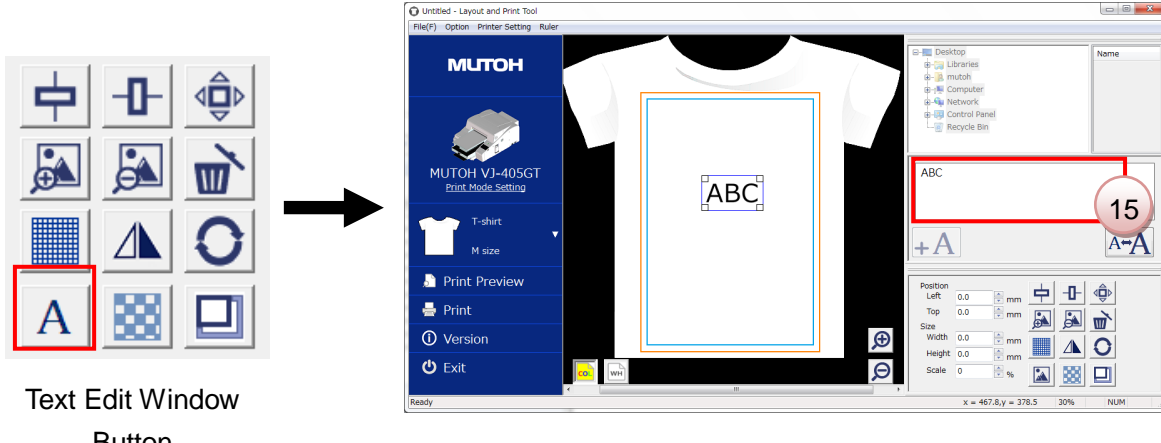
17	a	Position	Displays the image position from the upper left corner (editable).
	b	Size	Displays the image size (editable).
	c	Scale	Displays scale of the selected image. You can directly enter the scale value to change the scale of the image.
	d	Vertical Align Center	Aligns the images to vertical center.
	e	Horizontal Align Center	Aligns the images to horizontal center.
	f	Fit to Platen	Optimizes the image to the largest size such that fits entirely within the printable area and centers the image.
	g	Scale up	Scales up the inserted image.
	h	Scale down	Scales down the inserted image.
	i	Clear the image	Clears all inserted images. The confirmation dialog will appear.
	j	Mesh View	Displays the grid lines in the printable area. The following 3 mesh views can be switched by clicking this button. <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> Mesh 1</div> <div style="text-align: center;"> Mesh 2</div> <div style="text-align: center;"> Mesh 3</div> </div>
	k	Flip Horizontal	Flips the image horizontally.
	l	Rotate Image	Rotates the image by 90 degrees with each clicking.

17	m	Image Preview/ Text Edit Window	Switch between Image Preview and Text Edit Window. For details, see 8-12 Image Preview/ Text Edit Window.
	n	Add Transparency	Make specific color transparent. For details, see 8-15 Make Specific Color Transparent.
	o	Crop/Reset	Crop a specific area from the selected image. For details, see 8-16.

## 8-12 Image Preview/ Text Edit Window

Switch the data to be edited between the Image Preview and the Text Edit Window by clicking the Image Preview/ Text Edit Window button in 17 Edit Buttons.

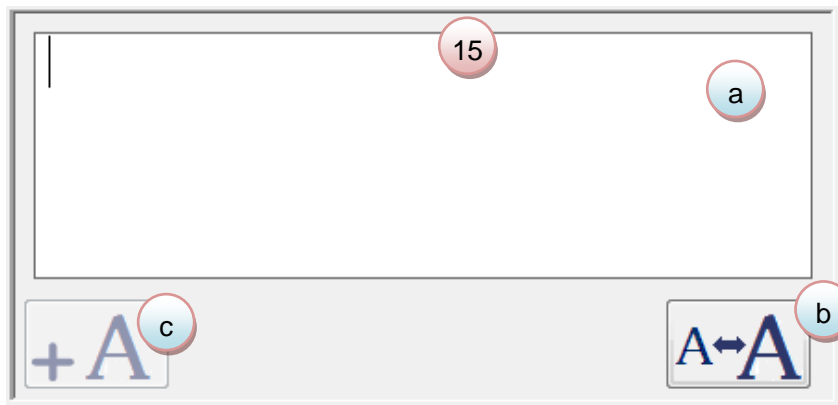
When switching this pane, the icon shown on the left bottom of this pane and on the button will also be changed.

<p>Image Preview</p>	 <p>Image Preview Button</p>
<p>Text Edit Window</p>	 <p>Text Edit Window Button</p>

## 8-13 Insert Text

Click the Image Preview/Text Edit Window button to switch this pane to Text Edit Window.

In this menu, you can enter text, select font, and insert or update it into the Edit Area.

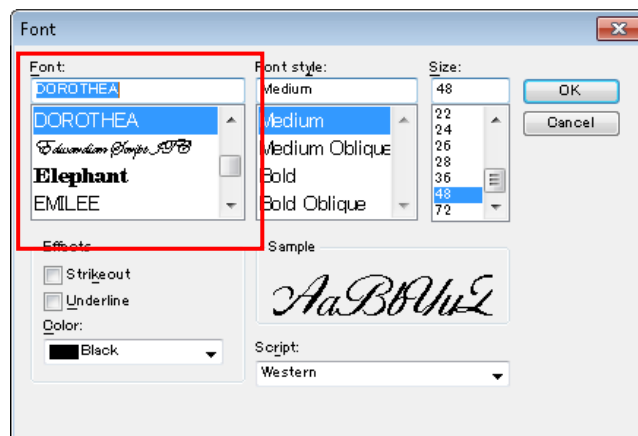


15	a	Text Entry Box	Enter text you want to insert to the design.
	b	Font Settings	Click here to open the Font Settings Dialog.
	c	Insert/Update	Insert the text to the Edit Area or update the text inserted to the Edit Area. When you enter text in the Text Entry Box, this button will be enabled.

### Windows Font Settings

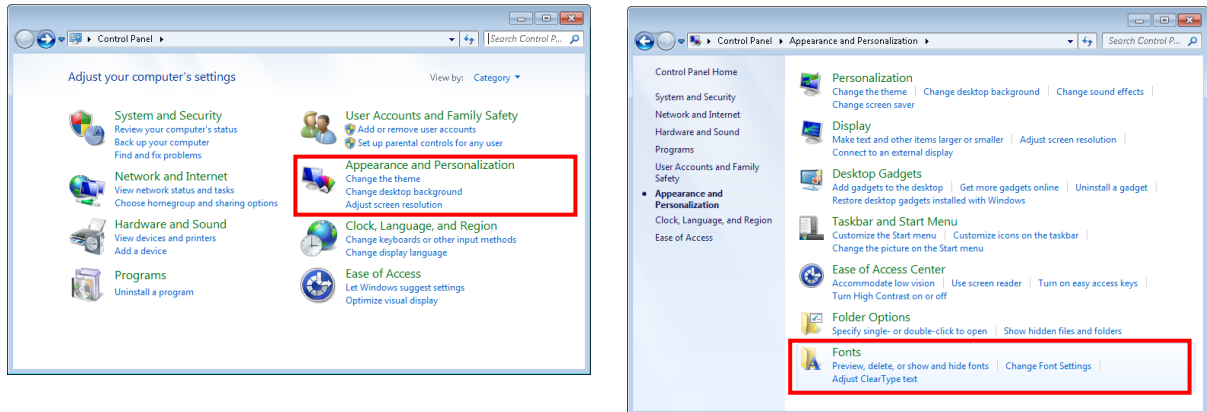
Click **b. Font Settings** to open the Font Settings Dialog.

The dialog shows the Windows font list.

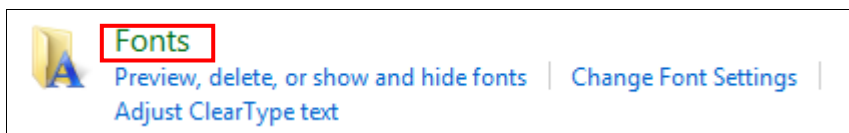


The hidden fonts will not appear in the list. If you want to show it, follow the procedures below.

Control Panel → Appearance and Personalization → Fonts

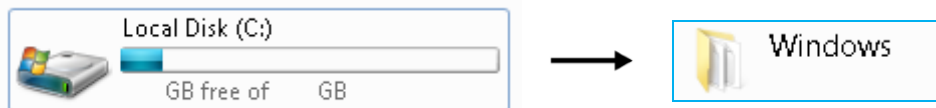


Click **Fonts**.

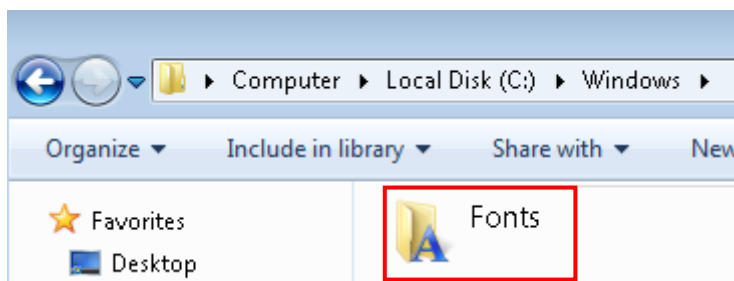


or

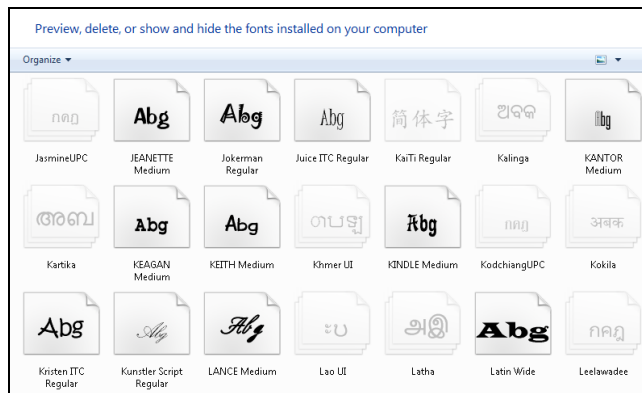
Start Button → Computer → Local Disk  
→ Windows → Fonts



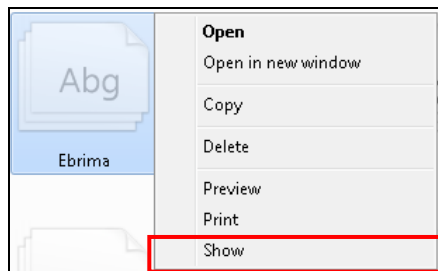
Double-click **Fonts** to open the Font folder.



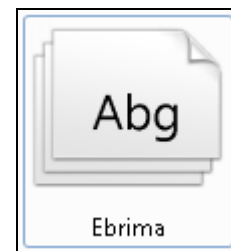
The Font folder stores all installed fonts including the hidden (transparent) fonts. The hidden fonts cannot be used for common applications.



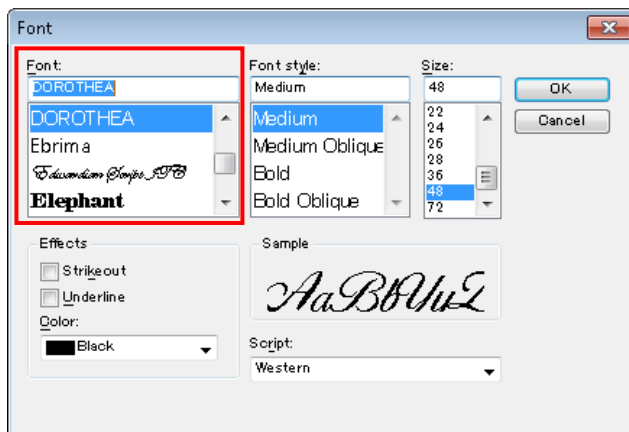
To show a font, right-click the icon and click **Show**.



The font icon appears.



Check the list.



The font appears in the list.



## NOTE

- Having too many fonts in the list can slow down some application performance.

**NOTE**

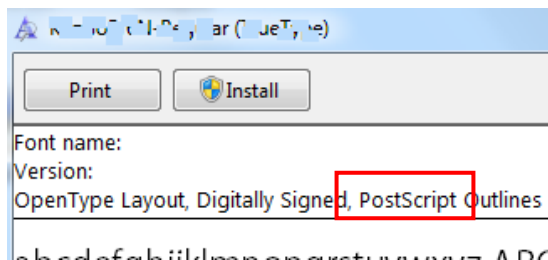
- Fonts Restrictions (Applicable Windows version: **Windows Vista, Windows 7**)

Layout Tool cannot print any text using PostScript fonts (as shown on the below property). These texts will be printed with Windows default font instead.

If you are using Windows Vista or Windows 7 and want to use PostScript fonts, convert the text to an image file using graphic software, and then use it with Layout Tool.

**How to check PostScript fonts**

Go to Font folder and click on the icon of the font being used. The following font property appears to check the type of font.



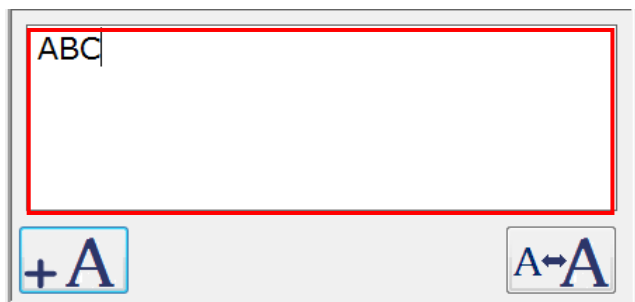
- If you are using Windows with default settings, PostScript fonts do not exist in your computer.
- For a person familiar with computer:  
Most of the file extension of this format is “.otf”. In Command Prompt, enter  
C:¥> cd C:¥Windows¥Fonts  
C:¥Windows¥Fonts> dir \*.otf  
so that you can check whether any PostScript fonts exist in your computer.

If you find the file with “.otf” extension, enter the file name as below in Command Prompt and click Enter to execute the command.

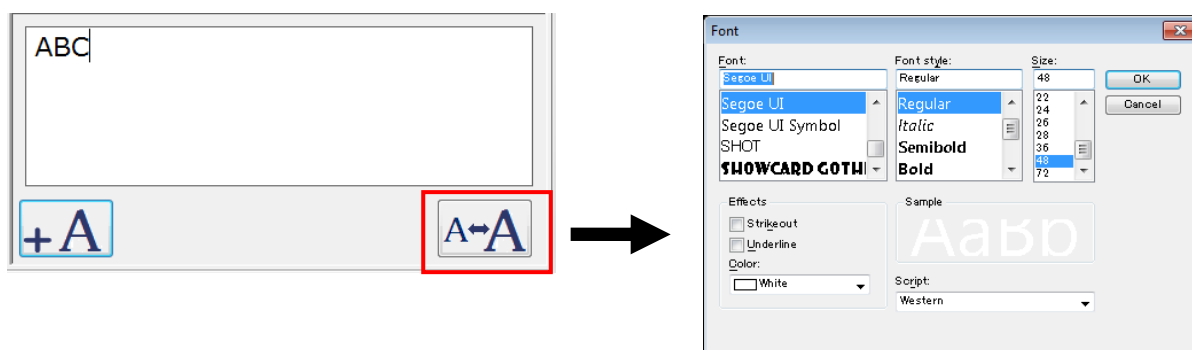
C:¥Windows¥Fonts> xxxx.otf

The following procedures describe how to insert a text to the Edit Area

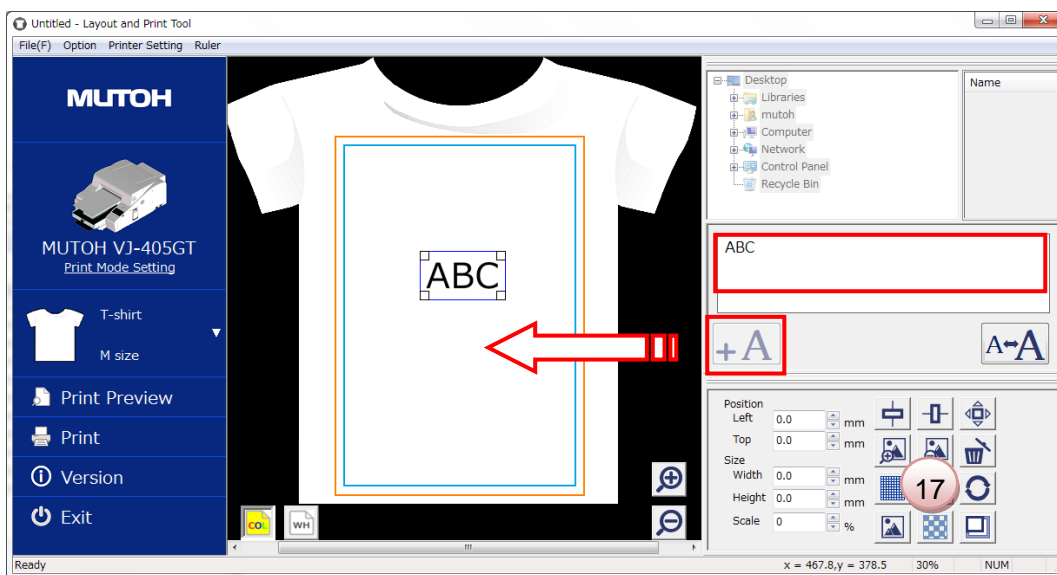
Enter your text in the Text Entry Box.



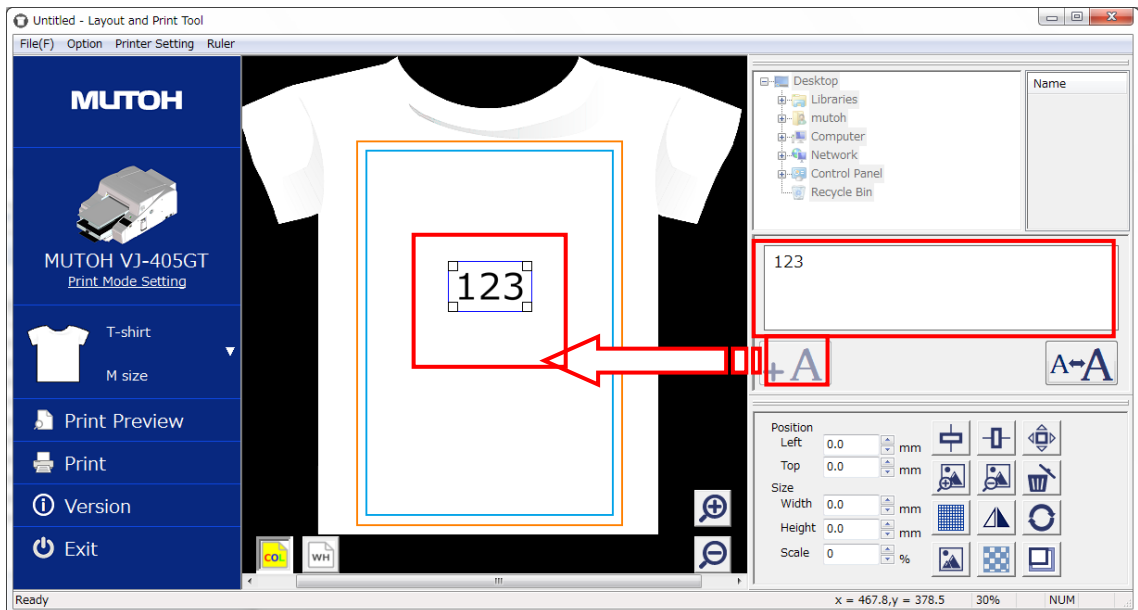
Click **Font Settings** to display the Font Settings dialog and change the font style.



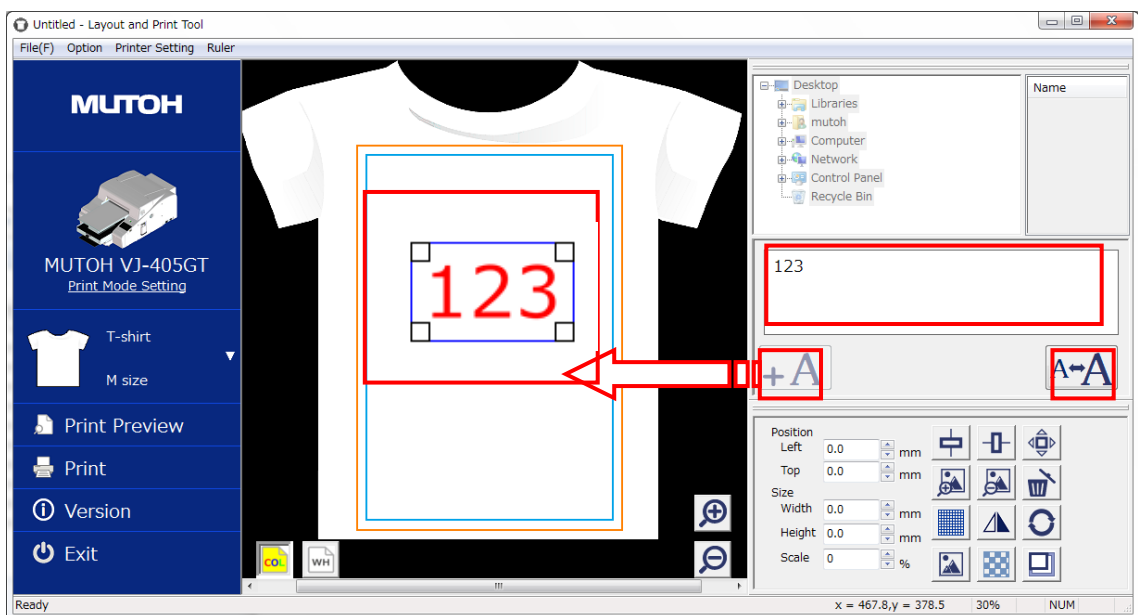
After changing the font style, click **Insert/Update** to insert the text to the Edit Area.  
Use 17 Edit Buttons to scale up/down or move the text as editing the image.



To update the text, enter a new text in the Text Entry Box and click **Insert/Update**.  
Before clicking, make sure to select the target text in the Edit Area.



Click **Font Settings** to change the font style.



If no text is selected in the Edit Area, a new text will be inserted by clicking Insert/Update.

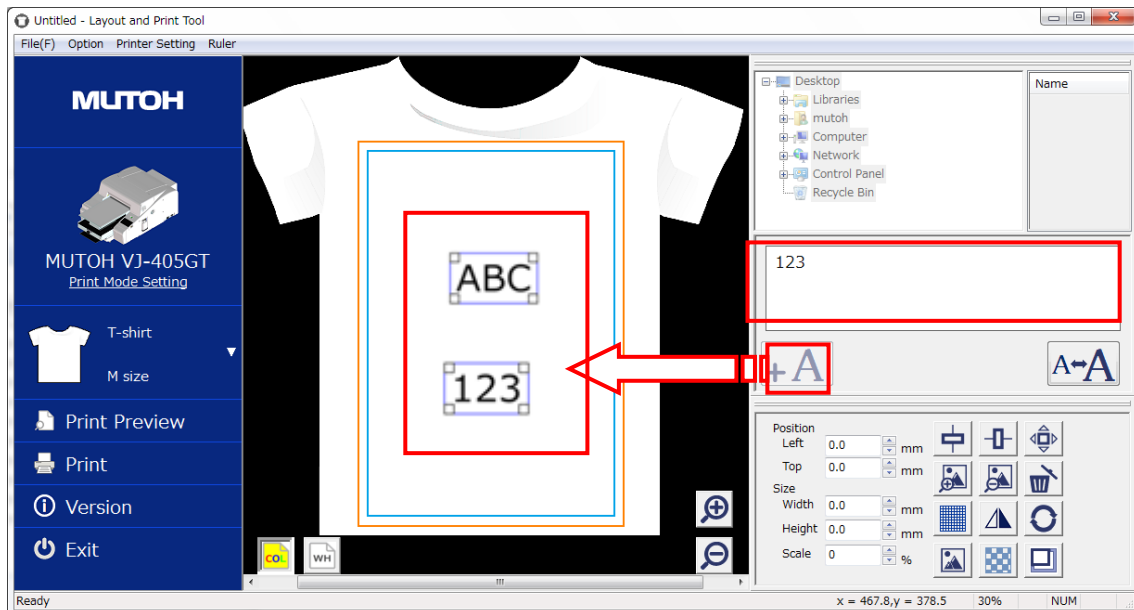
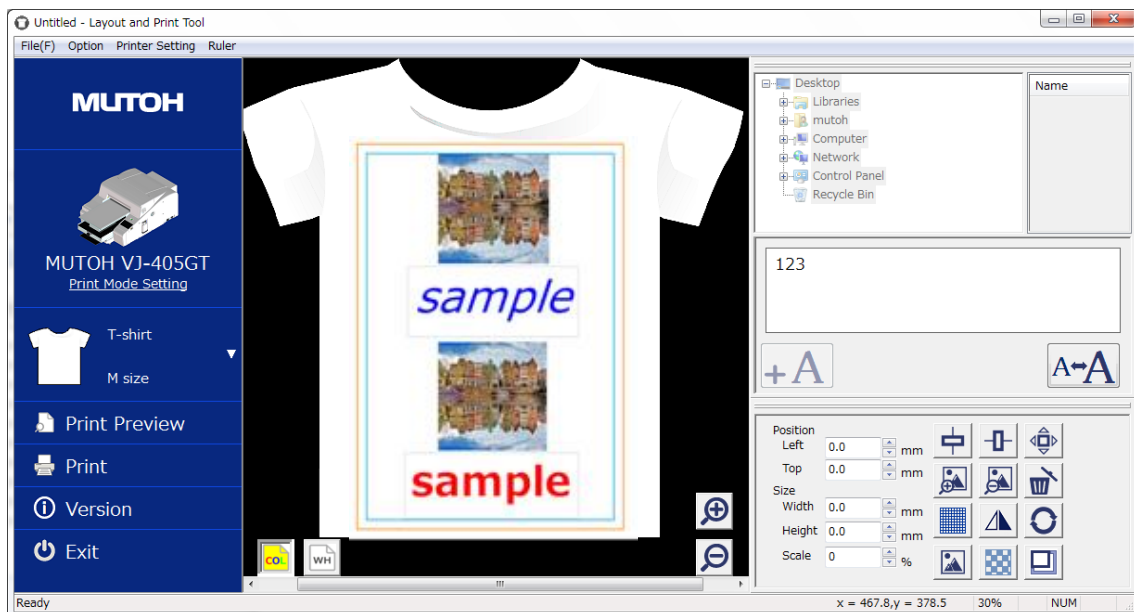
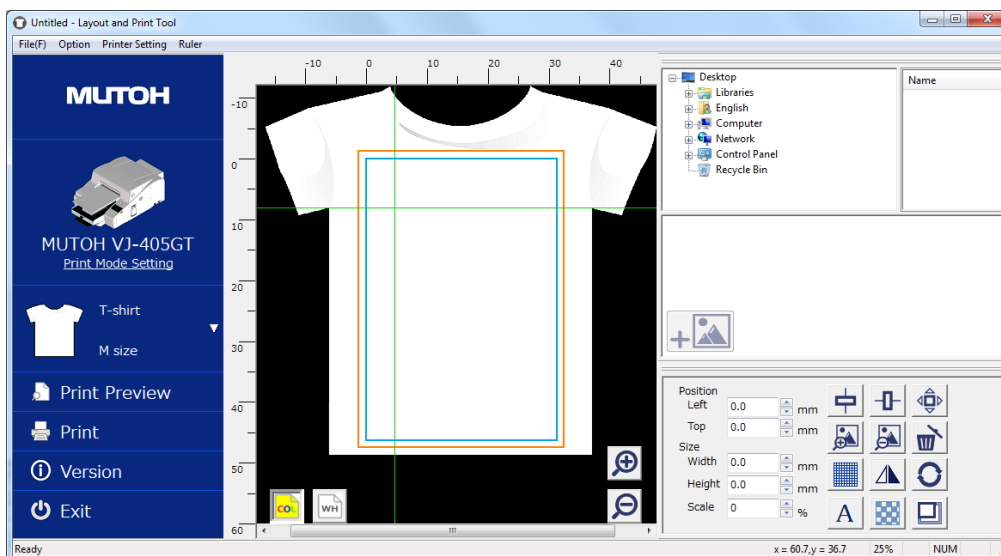


Image and text can be edited at the same time.



## 8-14 Ruler and Guides

You can place rulers and guides from the Ruler menu.  
Once the rulers appear, they will remain at the next boot.



The image data can be saved including guides setting with .lad file. When you insert the file into the Edit Area again, the guides will appear on the image. You can also save the guides setting without image data to use as template file.

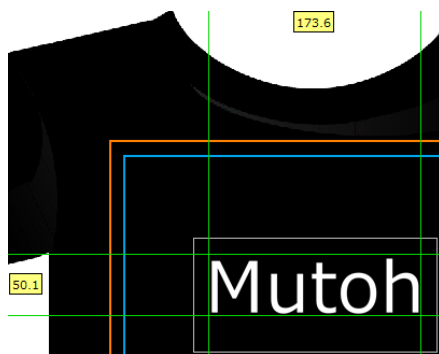
Use the guides as follows:

### As a Mark:

- Position a one-point mark or text
- Indicate a print start position for a user defined template
- Indicate a tag position on the garment.

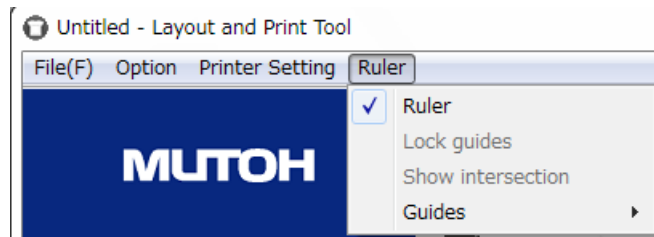
### Measure Spacing:

- Measure each spacing to see the actual text size.



## 1). Rulers

Check **Ruler** to show rulers.



### NOTE

- Depending on the scaling of Edit Area, scale on the rulers varies as follows:

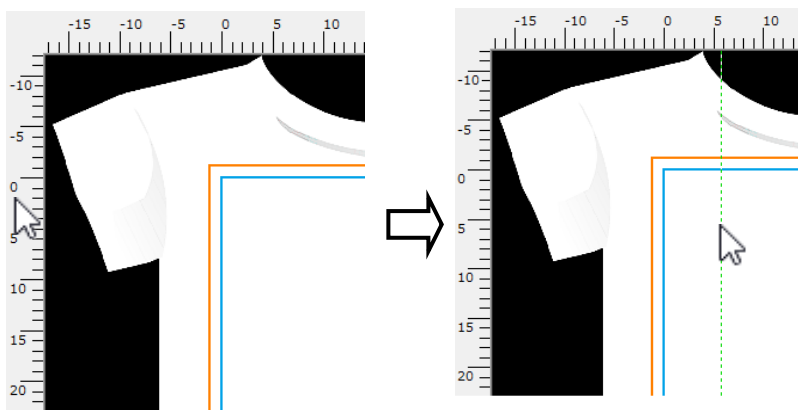
<u>Scaling of Edit Area</u>	<u>Scale on the rulers</u>
Less than 30%	50mm scale
More than 30%	10mm scale

## 2). Guides

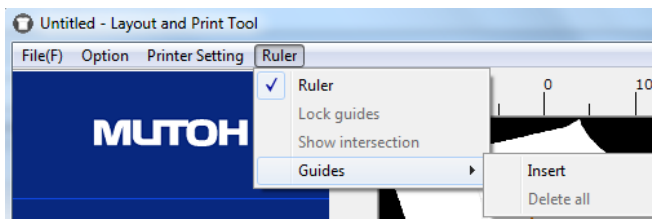
You can place up to 10 guides for both vertical and horizontal guides.

Choose either of the following procedures to insert guides and drag to the appropriate position.

- Left-click the rulers and drag within the Edit Area.



- Specify guides from the dialog.

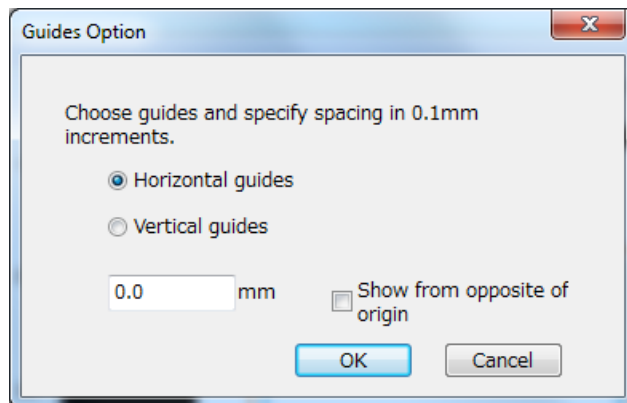


Choose Ruler > Guides > Insert.

The Guides Option dialog will appear.

Choose Horizontal or Vertical guides.

Specify spacing from ruler's zero origin.



If you close the Guide Option dialog and open it again, a new guide will be added to 10mm below or right from the guide you previously inserted and the position of the new guide will be displayed on the dialog.

To change the ruler's zero origin to the opposite side, check **Show from opposite of origin**.

The guide shows in red while dragging (before releasing the mouse button).

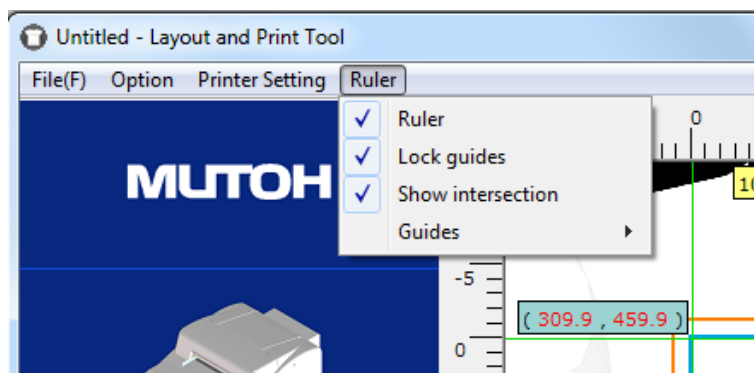
### 3). Measure Spacing

The spacing between each guide is displayed.

This display is only available while the rulers appear.

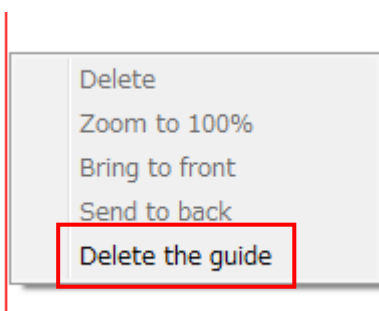


To show the position of the guide intersection, check **Show intersection**.



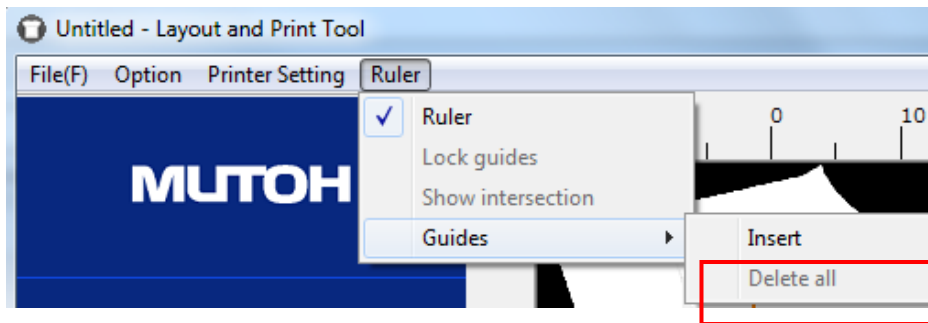
### 4). Delete the guides

To remove a single guide, right-click the guide and choose **Delete the guide**.



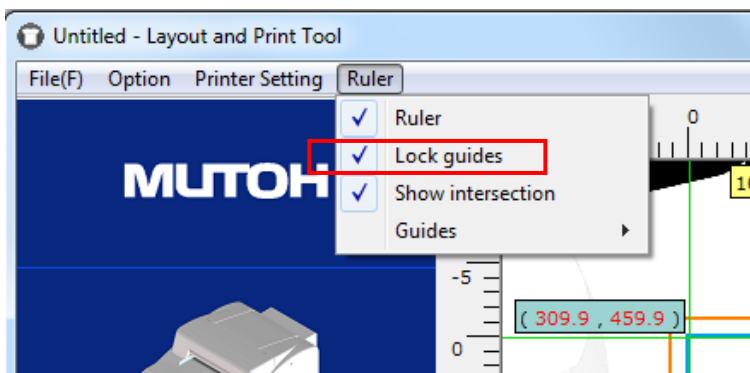
To remove all guides:

Choose Ruler > Guides > Delete all.



5). Lock the guides

Once you place the guides, lock them to block from the accidental mouse click.



You can save the guides setting in the file.

When you open such files, the guides will be still locked.

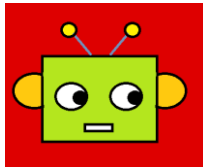
## 8-15 Make Specific Color Transparent

This is the simple function to edit an image.

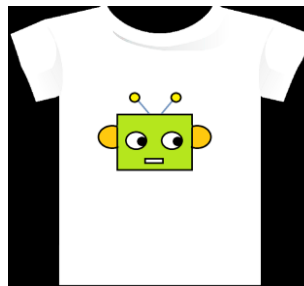
You can remove a solid color from the entire image to make it transparent.

### Example:

Image



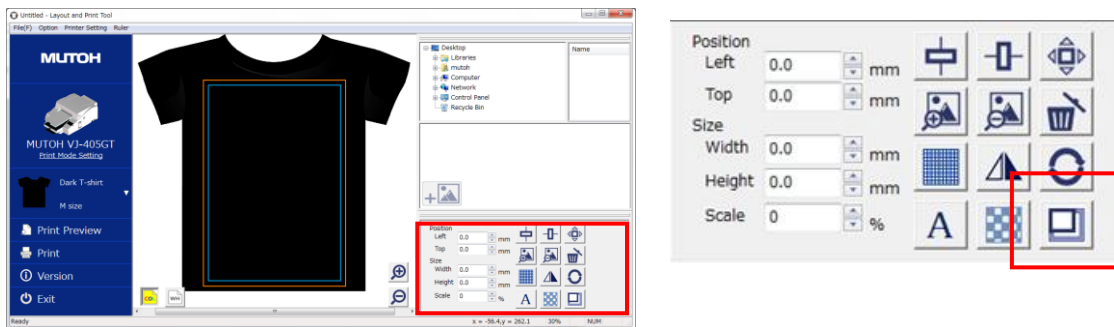
Printed Results



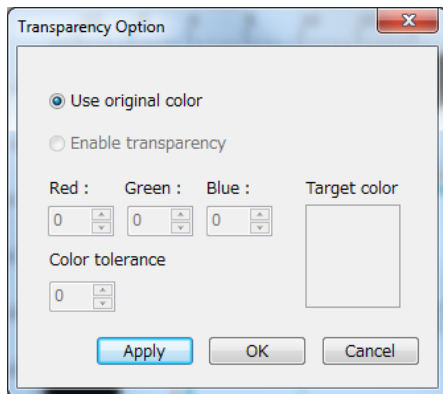
### NOTE

- With this function:
  - Intended objects may not be fully removed
  - Unintended objects may be also removed.For the better results, we recommend you to edit an image from graphic application.
- For the VJ-404GT users: Also see *7. Make Specific Color Transparent of VJ-405GT Layout and Print Tool White Printing Guide*.  
This section describes some examples and workarounds to successfully achieve transparent color.

Click the Transparency button. The following dialog appears.

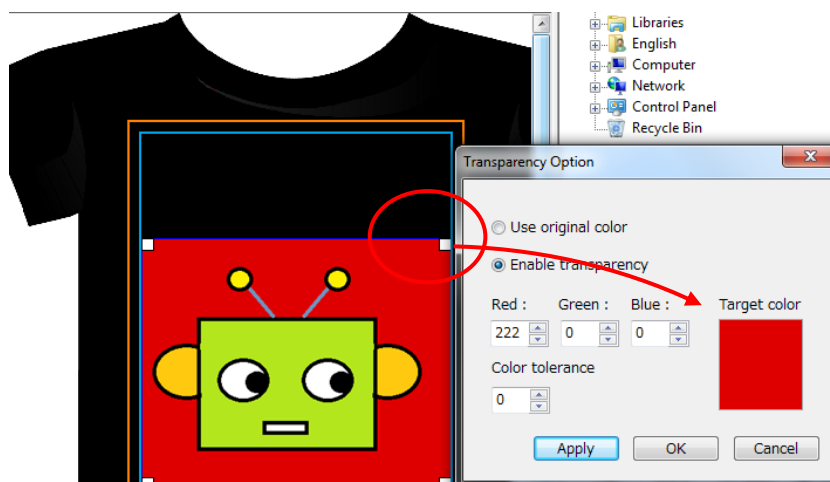


The transparent options are not available unless you select an image.

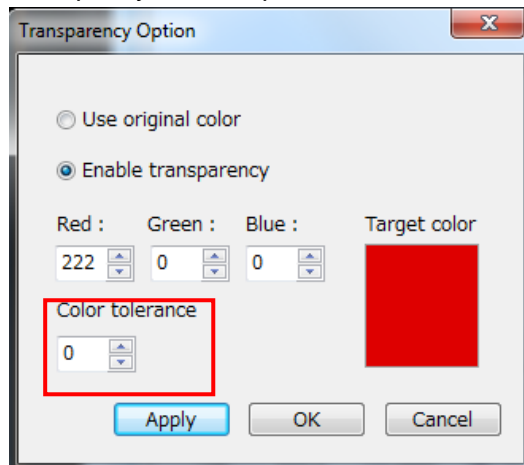


You cannot remove a color from the text inserted by Layout Tool.  
Change a color or text message from the Text Edit Window.

Check **Enable transparency** and click color that you want to make transparent from the Edit Area. Your specified color appears on the dialog as Target color.

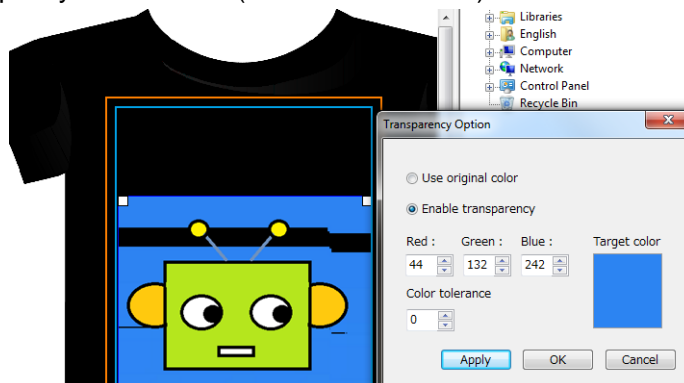


You can specify the acceptable limits or color tolerances from the target color.

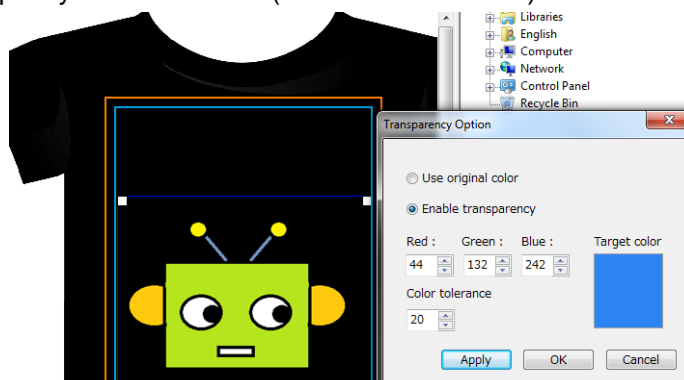


**Example:**

Specify a solid color (color tolerance = 0):



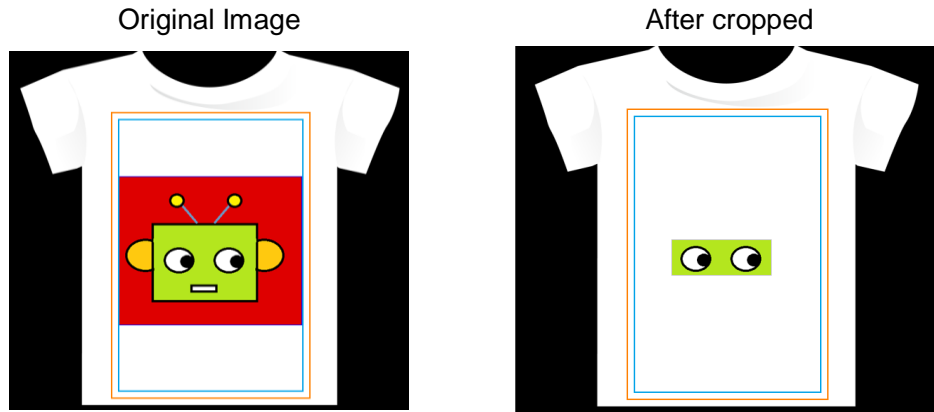
Specify color tolerance (color tolerance = 20):



## 8-16 Crop Image

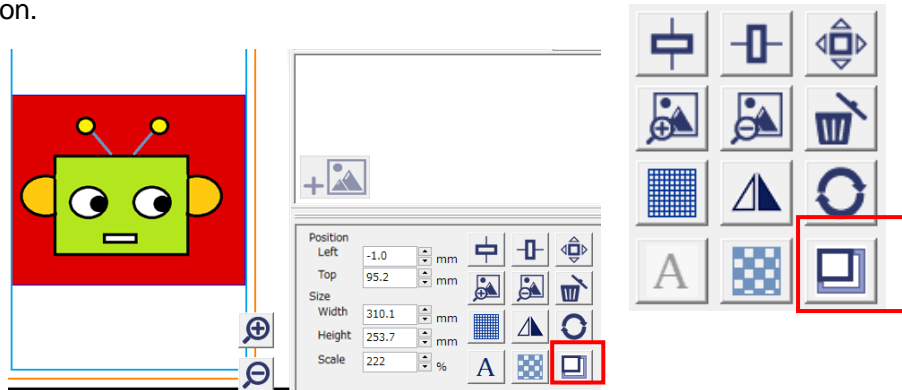
If you want to use a specific object in your image, use the cropping tool to easily crop the area you want to use.

### Example

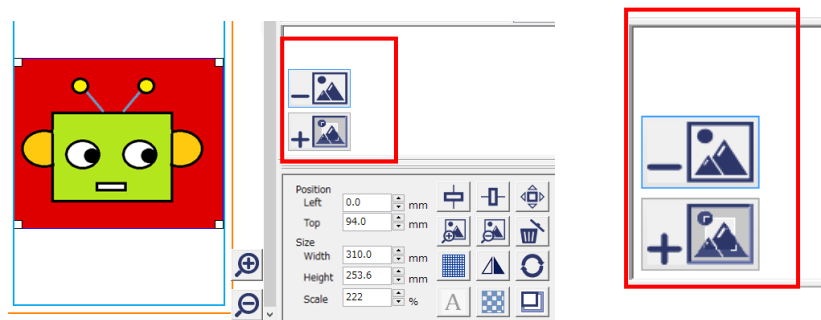


#### (a) How to crop a specific area

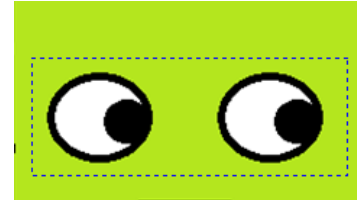
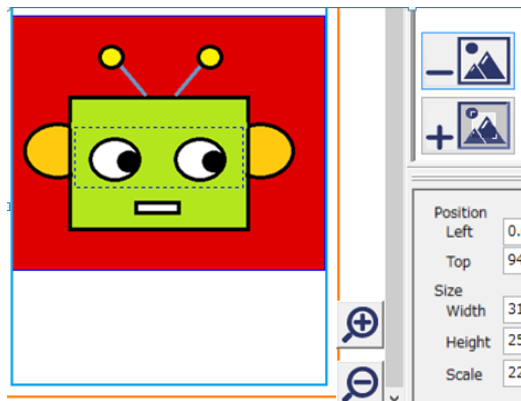
Keep the image selected and click the **Crop/Reset** button.



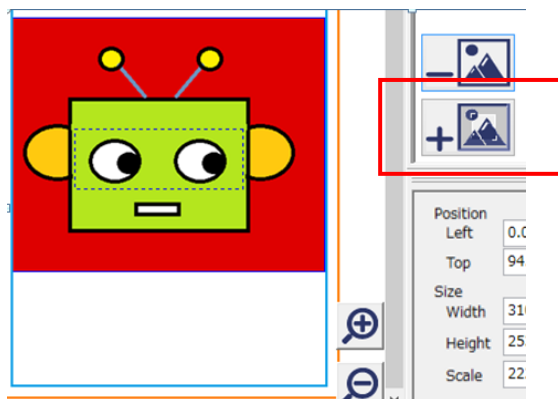
The Edit Area is switched to Crop Mode and the Crop (+) and Reset (-) buttons appear.



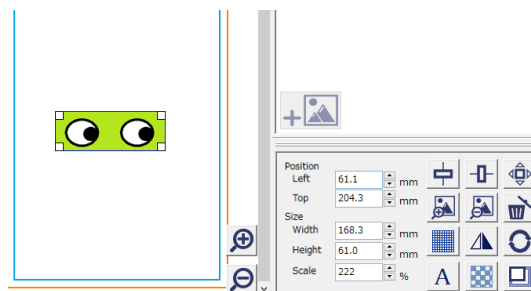
Drag on the image using mouse to choose the cropping area. The selected area is marked in dotted frame.



Click the **Crop (+)** button to confirm the cropped area and exit Crop Mode.

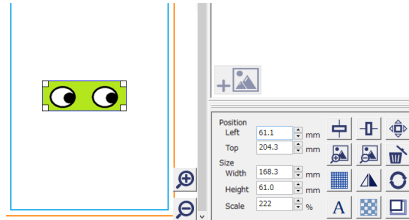


The cropped area is displayed in the Edit Area.

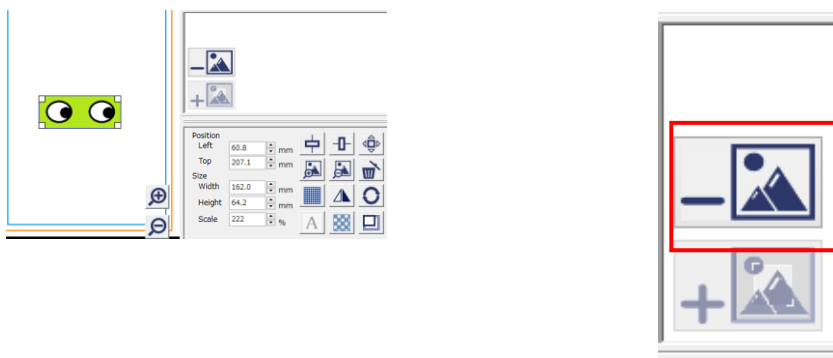


(b) How to reset the crop

Select the cropped image.

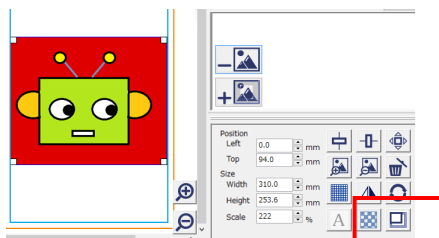


The Reset (-) and Crop (+) buttons appear, but only the Reset (-) button is enabled.



Click the **Reset (-)** button so that the original image will appear.

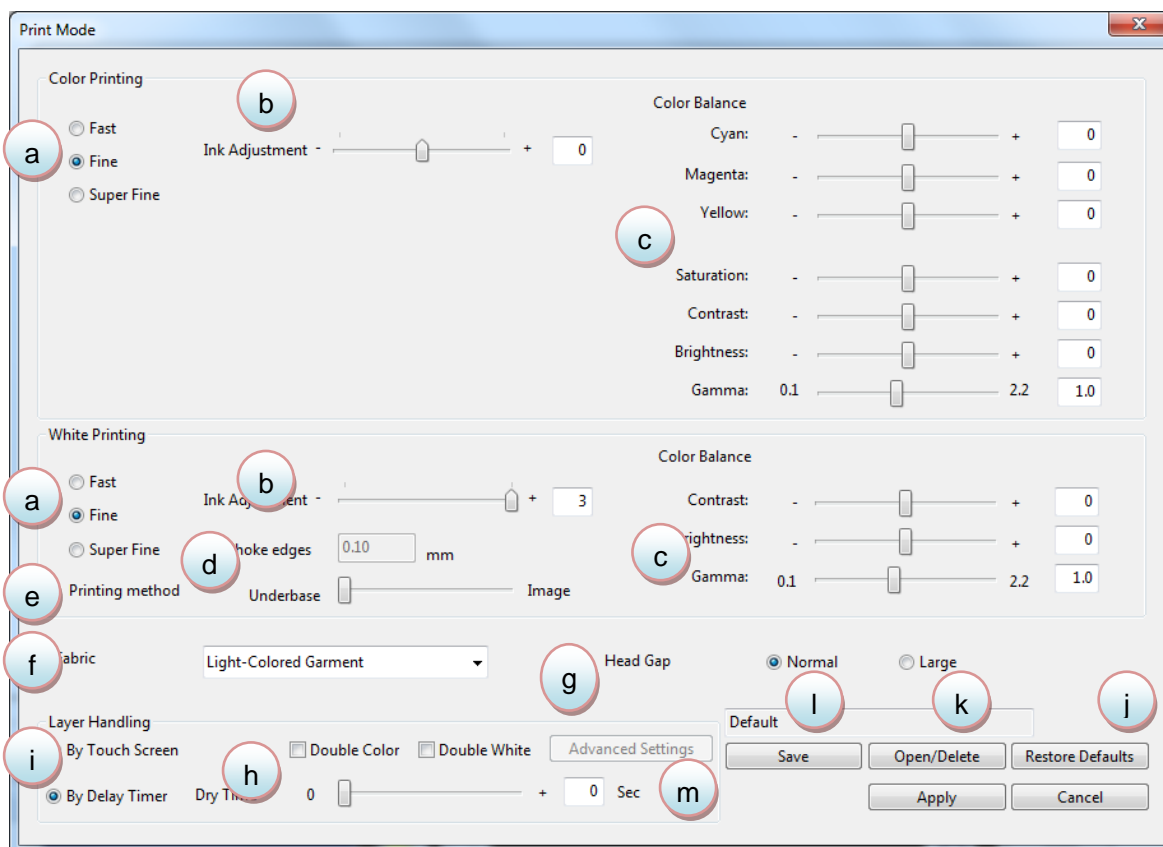
Then, click the **Crop/Reset** button to exit Crop Mode.



## 8-17 Print Mode


Click **Print Mode Setting** to display the following dialog.

Color adjustment are available for each color.



\*To adjust settings in b, c, e, and i (By Delay Timer), drag each bar.

a	Print Quality	Choose between Fast/Fine/Super Fine.
b	Ink Adjustment	Specify the ink density. Set the value between -3 and +3 (in increments of 1).
c	Cyan	Adjust color balance for each color. Set the value between -20 and +20 (in increments of 1).
	Magenta	
	Yellow	
	Saturation	Adjust saturation of the output images. Set the value between -20 and +20 (in increments of 1).
	Contrast	Adjust contrast of output images. Set the value between -20 and +20 (in increments of 1).
	Brightness	Increase or decrease brightness of output images. Set the value between -20 and +20 (in increments of 1).
	Gamma	Optimize the brightness in the midtones. Set the value between 0.1 and 2.2 (in increments of 0.1).

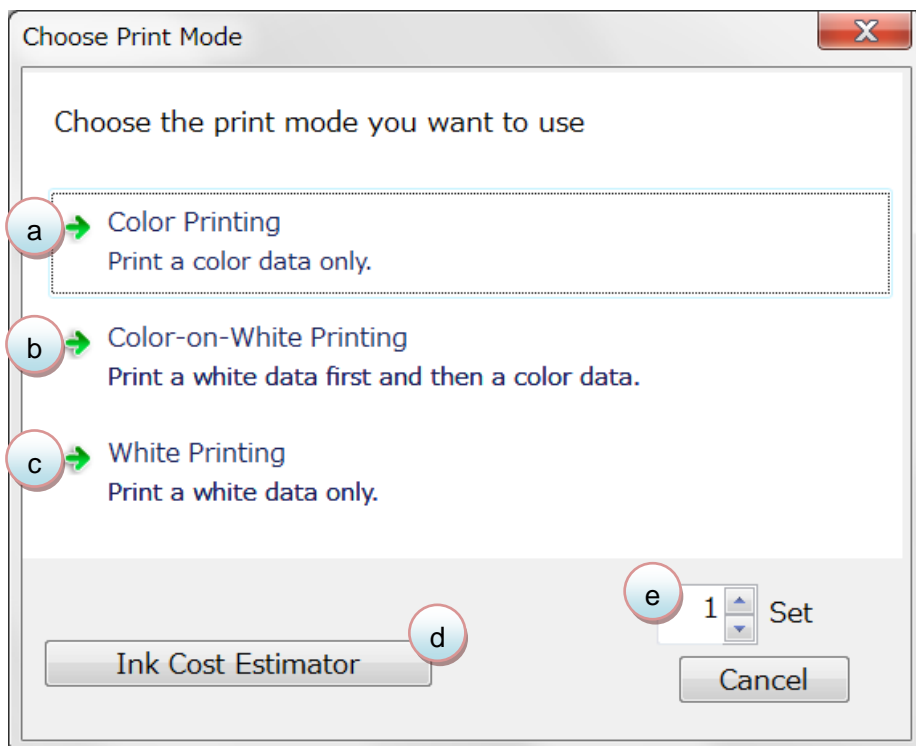
d	Choke edges	<p>Check Choke edges function to choke the outline of a white underbase by 0.01mm increments.</p> <p>Use this function to avoid white underbase being visible from the design overlaid due to bleeding.</p>
e	Printing method	<p>Adjust grayscale of white (underbase) and color (image) in Color-on-White Printing.</p> <p>Underbase: Print white underbase to cover the substrate color.</p> <p>Image: Appropriate for Black &amp; White printing.</p> <p>Adjustment image</p>  <p>For details, see VJ-405GT Layout and Print Tool White Printing Guide.</p>
f	Fabric	Choose one of the following depending on your fabric type: Light-Colored Garment, Dark-Colored Garment or Light-Colored Polyester.
g	Head Gap	Choose between Normal and Large. Appropriate platen height can control ink mist.
h	Double Color/ Double White	Check Double Color or Double White to print specified layer twice. This function enables to cover color of the coarse fabric with sufficient amount of ink.
i	Layer Handling	<p>Specify the time interval between pages to control the drying time for overprinting.</p> <p>By Delay Timer: Platen automatically moves to the print start position when the set delay time has passed.</p> <p>The setting range of drying time varies as follows:</p> <ul style="list-style-type: none"> <li>- using slider: 0 to 300 sec. (10 sec. increments)</li> <li>- directly entering time: 0 to 600 sec. (10 sec. increments)</li> </ul> <p>By Touch Screen: Platen moves to the print start position by touch screen panel operation.</p>
j	Restore Defaults	Restore to the default setting.
k	Open/Delete	Opens the Open/Delete dialog to select the saved Print Mode settings or delete unwanted Print Mode settings.
l	Save	Save the Print Mode settings.
m	Advanced Settings	<p>Opens the Advanced Settings dialog to specify the drying time per layer.</p> <p>See Drying Time Advanced Settings.</p>

## 8-18 Print

When finished editing, click **8-Print**. The following dialog will appear.

Select the print mode to start printing.

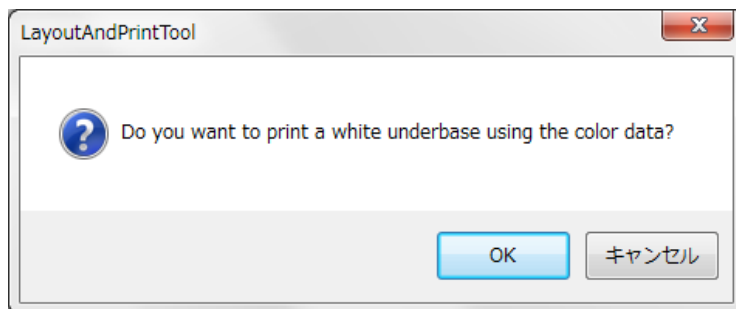
In this dialog, you can also specify a number of copies and opens Ink Cost Estimator.



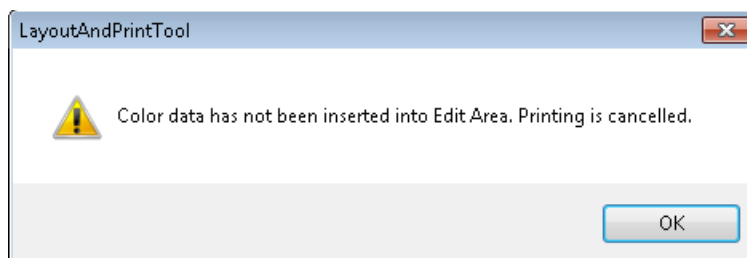
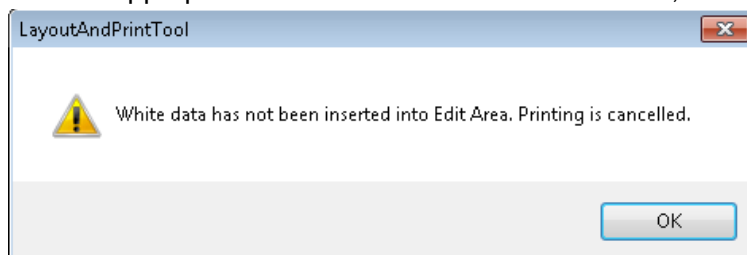
a	Color Printing	Print a color data.
b	Color-on-White Printing	Print a white data first on a garment, and then print a color data on the top.
c	White Printing	Print a white data.
d	Ink Cost Estimator	Displays the Ink Cost Estimator dialog.
e	Number of copies	Specify a number of copies of the printing.

**NOTE**

- When Color-on-White Printing is selected, if a white data does not exist, the following message will appear. If you want to print a white underbase using the color data, click OK.



- If the appropriate data is not inserted into Edit Area, the alert dialog will appear.

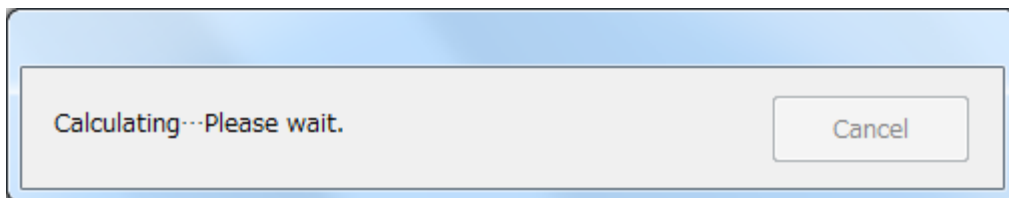


## 8-19 Ink Cost Estimation

As mentioned in 6-14 Print, Ink Cost Estimator estimates amount of ink consumed and ink cost of the printing.

a	Consumed	Displays the amount of ink consumed during printing estimated from the print data.
b	Ink Cost	Displays ink cost calculated from the consumed ink amount and <b>c Unit Price</b> .
c	Unit Price	Enter the unit price of color ink cartridge and white ink cartridge. After entering the price, click <b>d Update</b> . The ink cost estimation result will be displayed in <b>b Ink Cost</b> .
d	Update	Update the cartridge unit price entered in <b>C</b> and estimate the ink cost. The unit price will be stored until it is updated.
e	Color Ink Cost Estimation	Estimates the ink cost by each print mode (without printing). After estimating, the dialog will be updated to display the result.
f	White & Color Ink Cost Estimation	
g	White Ink Cost Estimation	

- After you check the Ink Cost Estimator and select a print mode, the following message appears while the Ink Cost Estimator estimates amount of ink consumed for the printing. Please wait until the estimation is complete.



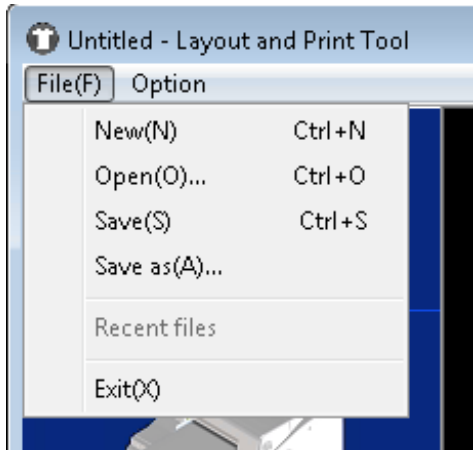
**NOTE**

Ink Cost Estimator does not measure the accurate ink consumption. Use this data as reference only. Estimation results may vary depending on image data even if printing the same image. Choke edges are not included in this estimation.

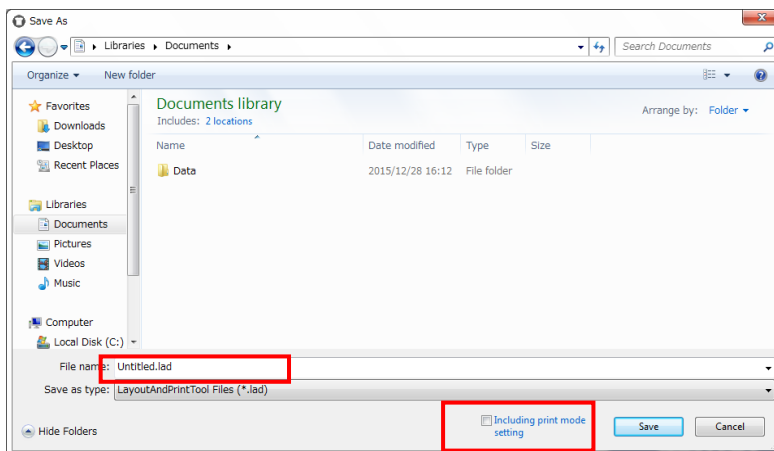
## 8-20 Save and Load the file

Save and load the file from the File menu on the Toolbar.

The edited image data, platen size and image position are saved into the file. The saved file can be loaded for printing/editing again.



The edited file will be saved as file extension **.lad**.



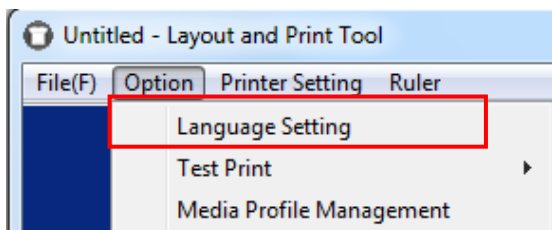
If you want to save the print mode setting, check **Including print mode setting**.  
Once you check, it stays checked.  
Uncheck it if such save is not needed.

### NOTE

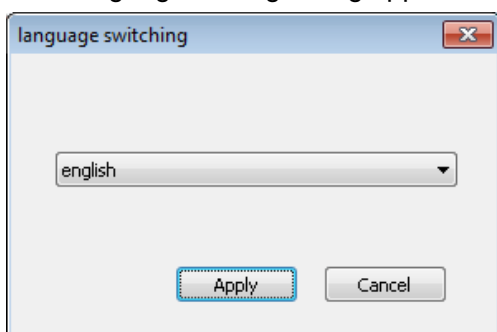
- When you use multiple images or large images, make sure there is enough space on your target disc.

## 8-21 Language Setting

To select a language, go to Option > Language Setting.



The Language Setting dialog appears.

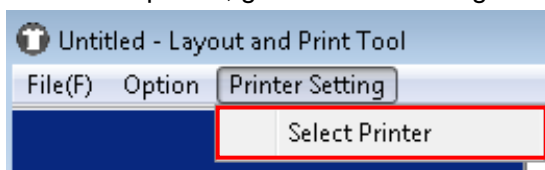


Japanese, English, Chinese or Korean is available.

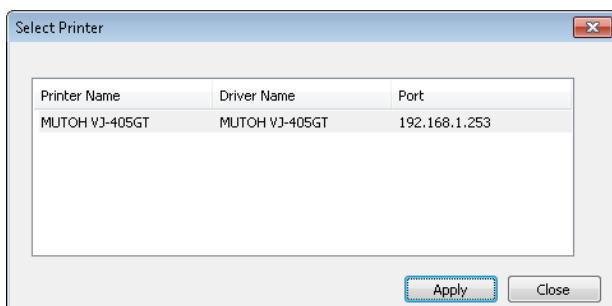
Select a language from the drop-down list and click **Apply**.

## 8-22 Select Printer

To select a printer, go to Printer Setting > Select Printer.



The Select Printer dialog appears.

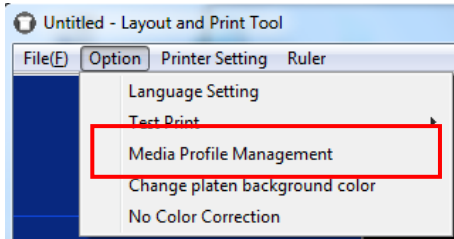


Select a garment printer to print from and click **Apply**.

## 8-23 Add Media Profile

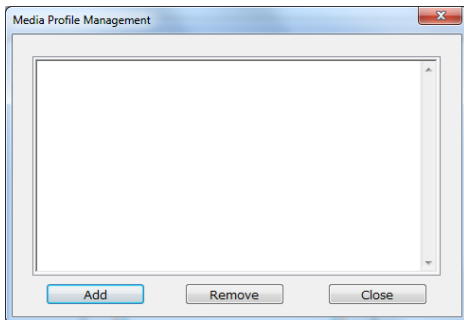
If you want to add media profile, follow the procedures below:

Choose Option > Media Profile Management.



When the media profile dialog appears, click **Add** to add a new media profile.

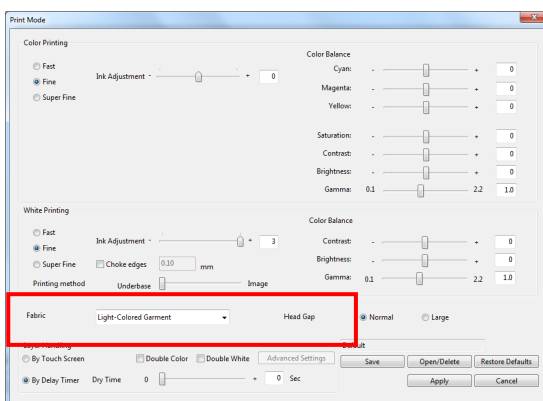
The default media profiles are not displayed in this dialog.



You can remove a media profile from this dialog.

Media profile can be added or removed from both printer driver and Layout Tool, and once added, it will be available in both software.

The added profile can be selected from Print Mode > Fabric.

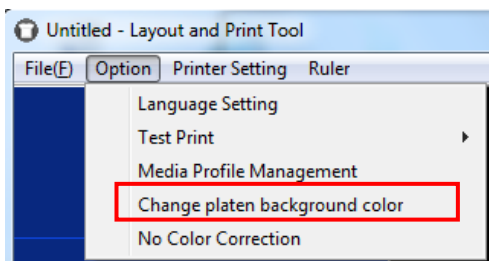


### NOTE

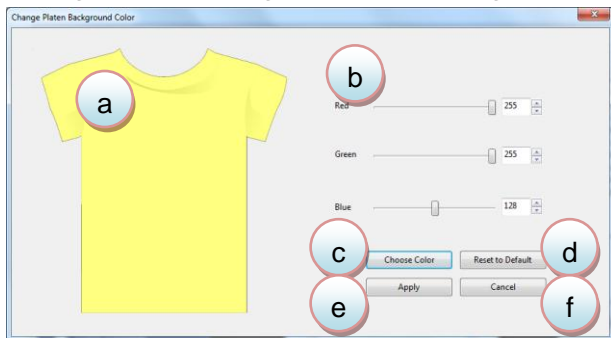
- Media profiles for Layout Tool are already stored in the printer driver and Layout Tool.
  - Layout Tool cannot use Non-Mutoh media profiles.
-

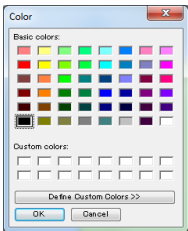
## 8-24 Change Platen Background Color

If you want to temporarily change the platen background color, go to Option > Change platen background color.



The Change Platen Background Color dialog appears.



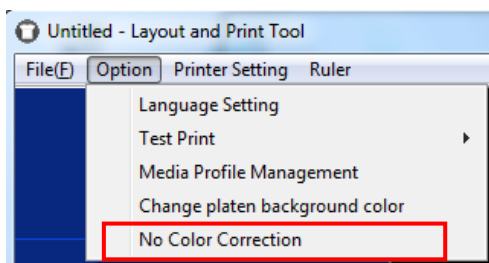
a	Preview	Displays the color image of platen background you chosen.
b	RGB values	Use this option when you want to specify the color by RGB values.
c	Choose Color	Opens the Color dialog to select a color. 
d	Reset to Default	Reset to the default background color.
e	Apply	Apply this setting. Close the dialog and change the platen background color.
f	Cancel	Cancel this setting and close the dialog.

### NOTE

- The platen background color will be reset to default color when you change the platen type or next time when you start Layout Tool.

## 8-25 No Color Correction Printing

When you want to use the primary color of the ink to print your image, select this menu.



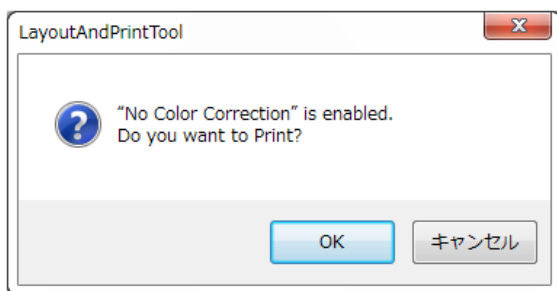
The table below shows the RGB values of each primary ink color.

Ink Color	RGB values
Black	(x, x, x) all same value
Cyan	(x, 255, 255)
Magenta	(255, x, 255)
Yellow	(255, 255, x)

### NOTE

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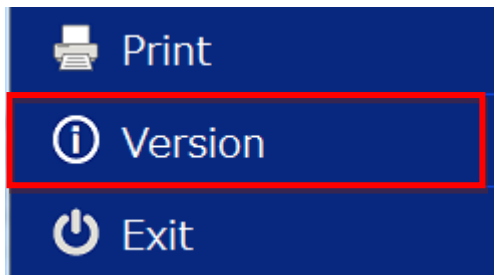
- If you print an image data using No Color Correction, mostly the color of the prints look different from the original image data.
- When this setting is enabled for Color printing, the following confirmation dialog will appear.



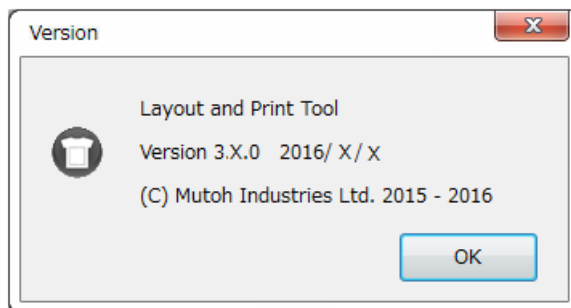
- This setting is automatically disabled when you start Layout Tool next time.
  - When saving a lad file, this setting will not be reflected.
-

## 8-26 Version Check

Click **Version**.



The version number will be displayed.



## 8-27 License

This application uses following open source library.  
For this software license agreement document,  
please see LICENSE file in the application folder.

Open Source Computer Vision Library (OpenCV)  
Ver.2.4.10

Copyright (C) 2000-2008, Intel Corporation, all rights reserved.  
Copyright (C) 2009-2010, Willow Garage Inc., all rights reserved.

## 9 Platen Edit Tool

### 9-1 Create User Defined Template

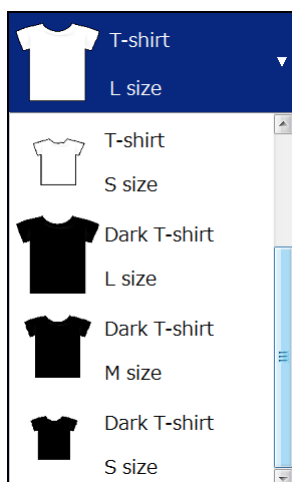
Layout Tool has three default platen sizes (Platen L, Platen M and Platen S) and each has defined printable area.

If you want to create a new printable area, you can use Platen Edit Tool (referred to as “Platen Tool”) to create a user defined template and add it to the Platen List.

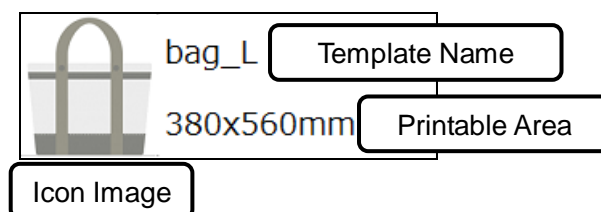
In Platen Tool, using your item image as a background image, you can specify the printable area on the background image to create your own template. Once the user defined template is saved in Platen Tool, it is automatically added to the Platen List in Layout Tool.

For details, see the Platen Edit Tool Operation Manual.

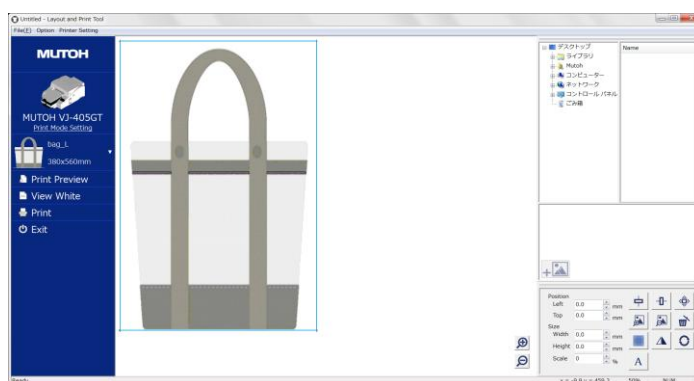
Default Platen List



User defined template is added to the Platen List



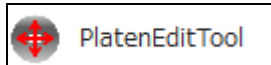
When the user defined template is selected, the defined background image is displayed in the Edit Area.



## 9-2 How to Start Platen Tool

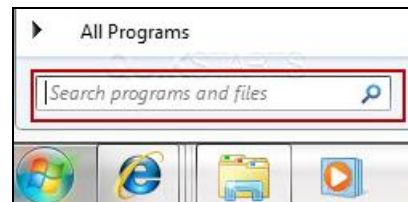
To find Platen Tool, enter “PlatenEditTool” in the search box.

Click on the following icon to start the application.



### ● Windows7

Click on the Start Menu and enter “PlatenEditTool” in the Search programs and files.

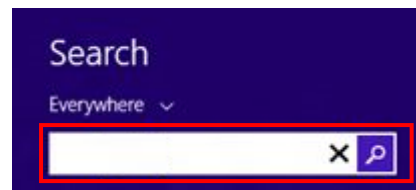


### ● Windows8/8.1

On the Start screen, click the Search button to open Search and enter “PlatenEditTool”.



Right-click the Platen Edit Tool icon and choose Pin to Start to pin it to your Start menu.



## 9-3 Other Use

If you want to print on an item other than T-shirt using the Mutoh Platen M (supplied with the printer), or if you want to place your custom platen on the Mutoh Platen M, you can create a new printable area in Platen Tool to fit to your item.



**MUTOH**