



INSTALLATION MANUAL



SOFTWARE V.8.3.4



Version 3.0

artisJet Customer Care Center, November 2016

About This Manual

This manual describes basic functions, theory of electrical and mechanical operations, maintenance and repair procedures of the printer. The instructions and procedures included herein are intended for the experienced repair technicians, and attention should be given to the precautions on the preceding page.

— *artisJet Customer Care Center* —

Statement

This service and warranty policy is to guarantee **artisJet** users' benefits, suitable for all **artisJet** end users worldwide. The resellers shall obey the same policy to their sold products. Hereby, **artisJet** offers main tasks for after sales service: Service & Support, Warranty, **artisJet** Care Plus.

Warning

Children should be kept away from flatbed printing equipment to avoid any possible injury due to improper operation by children or damage the equipment. Before operating **artisJet** products, users should read the product instruction carefully and strictly comply with the instructions and specifications. Independent operation is not allowed for the initial installation.

It may cause personal injury by using the toxic and unoriginal ink instead of **artisJet** original ink or do not install the device in accordance with the equipment instruction or electrical voltage requirements strictly.

Check the package before signing in the consignee form and take pictures as evidence.

Stop conditions

Do the initial installation without contacting **artisJet** or appointed reseller's team.

Do not use the **artisJet** original or authorized inks and wearing parts.

Do not have proof of break when package arrives if there is any.

Do not operate the printers by the improperly operation which are not according to the stipulations.

Handling operation

Make package inspection before signing in the consignee form from sender and take pictures as proof if there is any damage for further operation.

Do not operate this equipment until you read and understand the contents of the operation manual. Failure to follow operation instructions could result in personal injury or damage to equipment.

It may cause personal injury due to using the toxic and non – original ink instead of [artisJet](#) original ink.

It may cause damage if the equipment is not installed in accordance with the equipment instruction or electrical voltage strictly requirements.

Contact us before doing any operation of the machine.

Safety notice

Keep the children far away from this equipment.

Operate the UV series equipment with protective glasses.

Ground wire must be connected; any failure of ground wire will cause damage to electronics.

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CHAPTER 1

PRODUCT DESCRIPTION

1.1. Introduction

This service manual details how to install and use artisRIP V.8.3.4 and goes further to explain the main functions and settings of the software.

artisRIP V.8.3.4 is a Raster Image Process (RIP) software designed for use with direct to substrate printers utilizing Epson technology. It is a powerful program, primarily allowing ink channel manipulation (for white and gloss ink printing), PANTONE standard colour correction (by using predefined .icm profiles generated by artisJet for its printers) and easy templating for accurate and simple image placement.

1.2. License

A license USB KEY Dongle is required to run artisRIP V.8.3.4 and it must be connected to the operating PC at all times.

1.3. Compatibility & System Requirements

artisRIP V8.3.4. is compatible with the artisJet multi – purpose printer range.

1.3.1. Equipment of software

This system can run under following operation systems:

1. Windows XP
2. Windows Vista
3. Windows 7
4. Windows 8
5. Windows 10

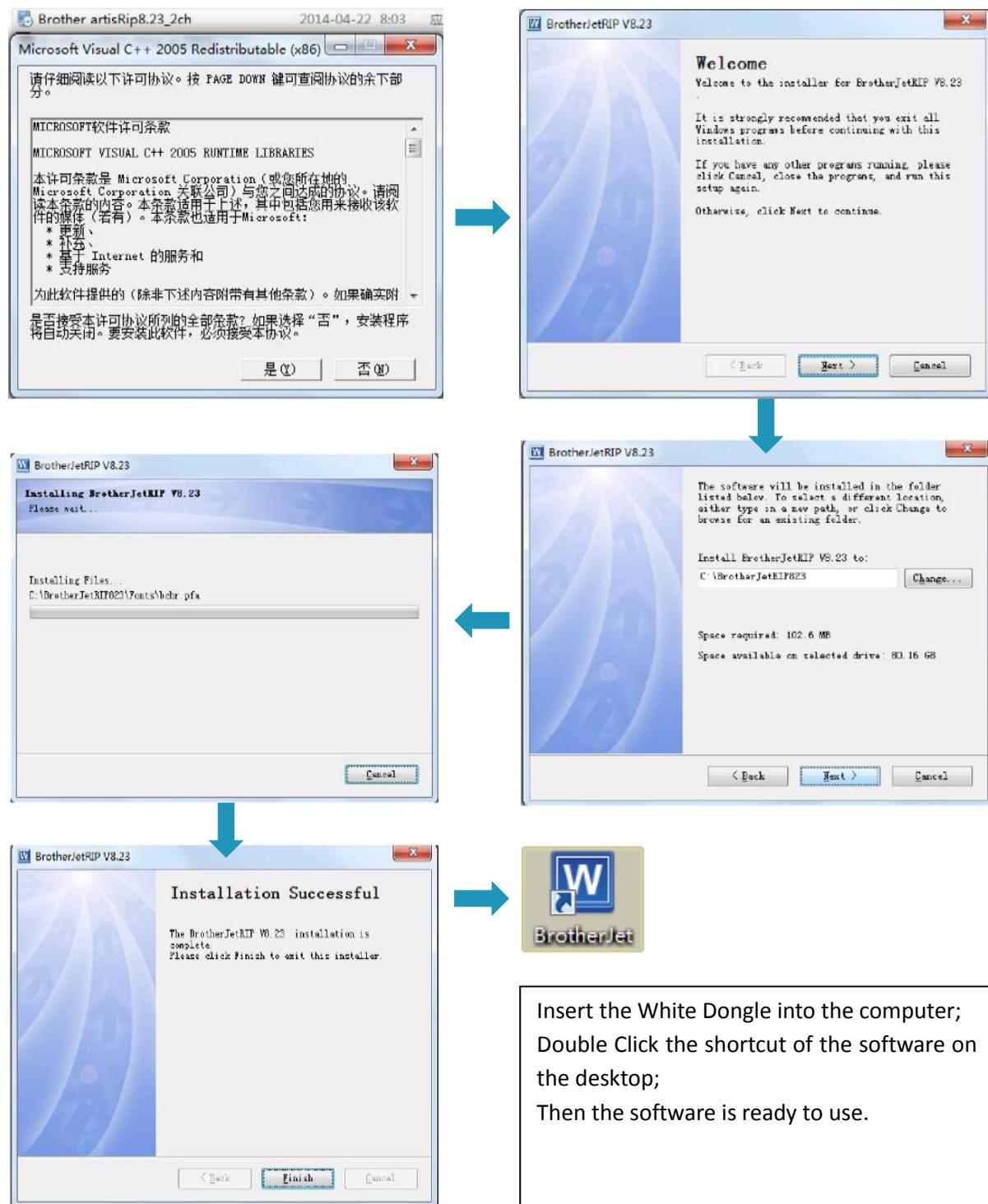
1.3.2. Equipment of hardware

	STANDARD	ADVANCED
CPU	2000 MHz	Dual Core 2000 MHz
Memory	Above 512 MB (Windows XP) Above 1 GB (Windows Vista, Windows 7, Windows 8)	Above 1 GB (Windows XP) Above 2 GB (Windows Vista, Windows 7, Windows 8, Windows 10)
Hard disk space	Above 300 MB (system required)	Above 300 MB (system required)

CHAPTER 2

INSTALLATION & USAGE

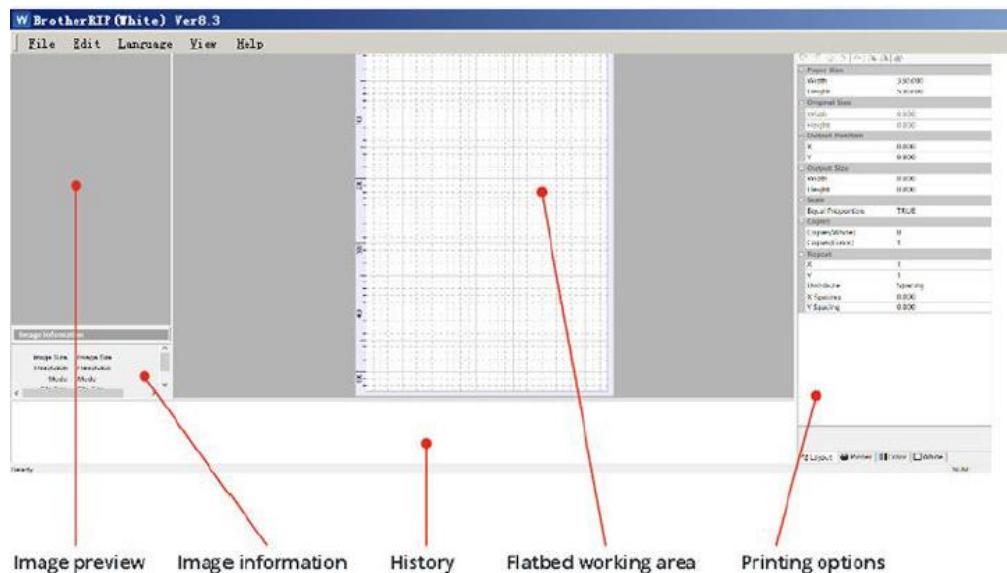
2.1. artisJet RIP V.8.3.4 Software Installation



2.2. Use the software

Make sure to insert the white USB Dongle into an available USB slot in your PC. On first time use, Windows will automatically install the necessary drivers and indicate when this is complete.

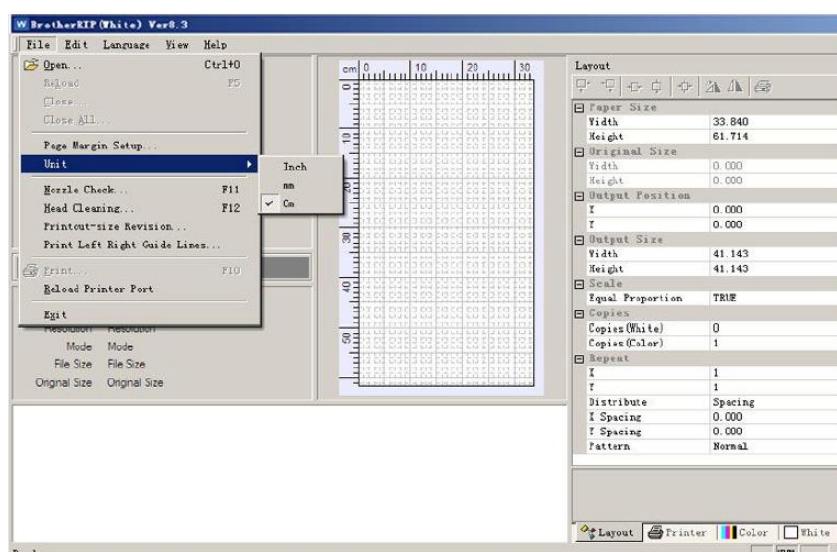
2.2.1. Open the software



2.2.2. Initialization for common job

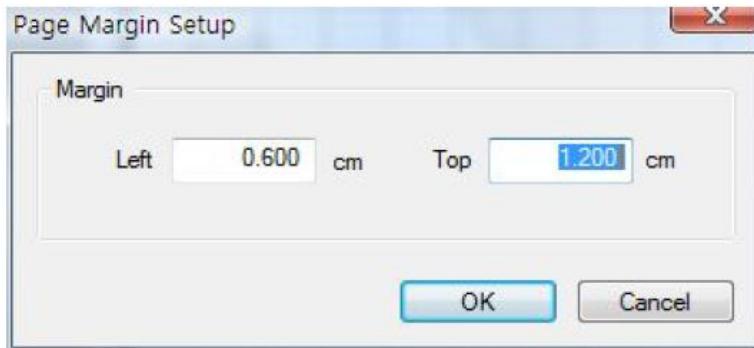
2.2.2.1. Units

Units are set to centimeters by default. This can be changed to millimeters or inches as required by navigating to File > Unit and choosing inch, mm or cm.



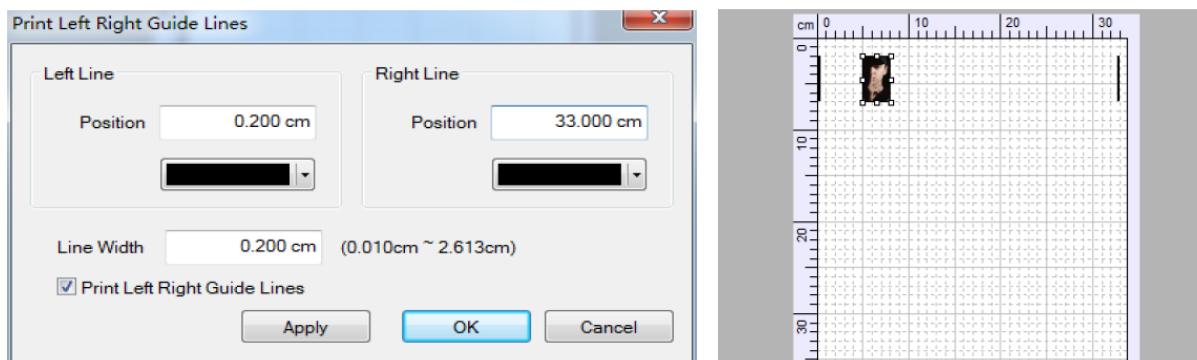
2.2.2.2. Page Margin Setup

Adjust the starting point in case there is ruler or frame for direct printing on the flatbed. It may be necessary to set a small page margin to center the printable area on your flatbed. This can be set under File > Page Margin Setup.

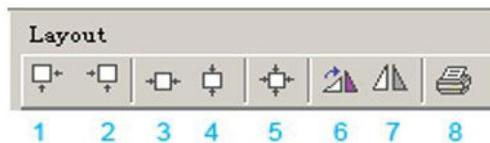


2.2.2.3. Print Left / Right Guide Lines

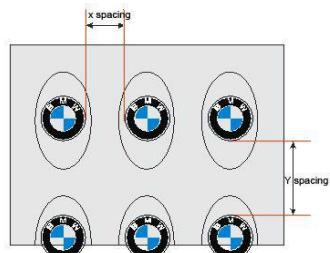
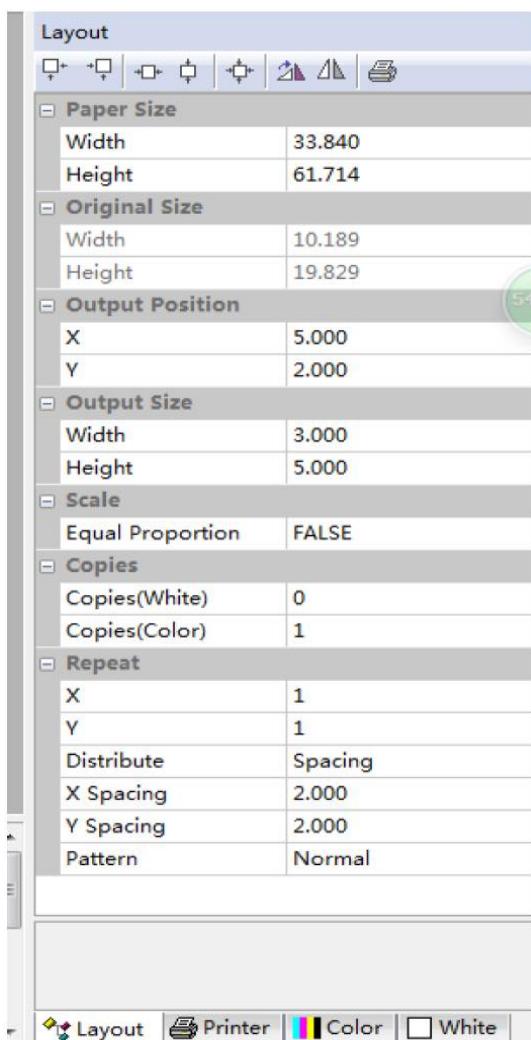
If you want to print the image resolution and narrow speed adjustment is not permitted, in this case, the left and no matter how narrow the line to the right to print images, can even make a regular round trip distance ink drying time. This feature is to ensure purpose.



2.2.2.4. Layout Tab



1. Snap image to top left
2. Snap image to top right
3. Snap image to center horizontally
4. Snap image to center vertically
5. Snap image to center
6. Rotate image, rotation for 90, 180, 270 degrees
7. Mirror image
8. Print



Paper Size “Size of flatbed”

artis BR U1800 / artis 3000U paper size set

Width = 320 mm; Height = 650 mm

artis 2000U / artis 2100U paper size set

Width = 215 mm; Height = 300 mm

Original Size

The size of the original width and height of your open image.

(Adjustable x)

Output Position

Set the position of your image on the flatbed when not using a template. X = distance from left, Y = distance from top.

Output Size

Resize the image if required by changing the width and height values.

Scale

Equal Proportions = TRUE Resizing the image will be done in proportion;

Equal proportions = FALSE Resizing the image will not be done in proportion.

Copies

Set the number of white and color printing.

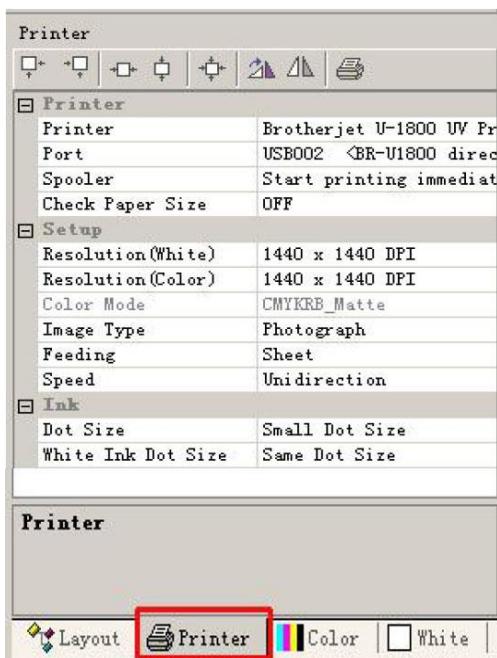
Repeat

Set the number of iterations and the aspect image shown in figure.

Adjust the space between Function.

X=3, Y=3, Distribute = Spacing

2.2.2.5. Printer Tab



Printer = artis BR 1800U

Port = Port connected with your installed artisJet flatbed printer

Spooler = set as appropriate for the capabilities of your PC

Check Paper Size = OFF

Resolution (White) = choose the relevant DPI as desired and can be different to the colour print resolution (print speed, quality and ink density is affected by this setting and required setting is dependent on operator preference and material substrate)

Resolution (Color) = choose the relevant DPI as desired and can be different to the white print resolution

Color Mode = automatically set based on ink channel setup in the Colour Tab

Image Type = choose the setting that best matches the image to be printed

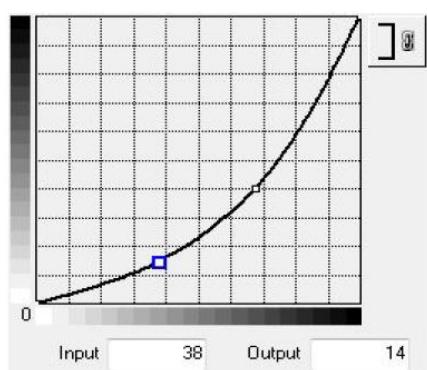
Select proper mode among Best/Good/Normal/Draft
Feeding = Sheet; Speed = Unidirection; White Ink Dot Size = Same Dot Size or set as required

2.2.2.6. Color Tab

Set the ink options for your printer in the color tab. Here you can set the specific ink channel setup of your printer, the desired ink density and append an ICC (.icc and .icm) color profile for color correction.

All preferences and options set across all four tabs can be saved into a single preset option for ease of use. Use the Print Setting option to Save, Select or Delete these preset options.

Curve



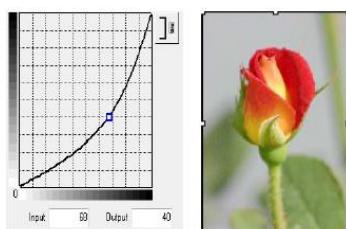
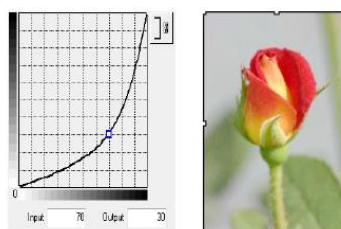
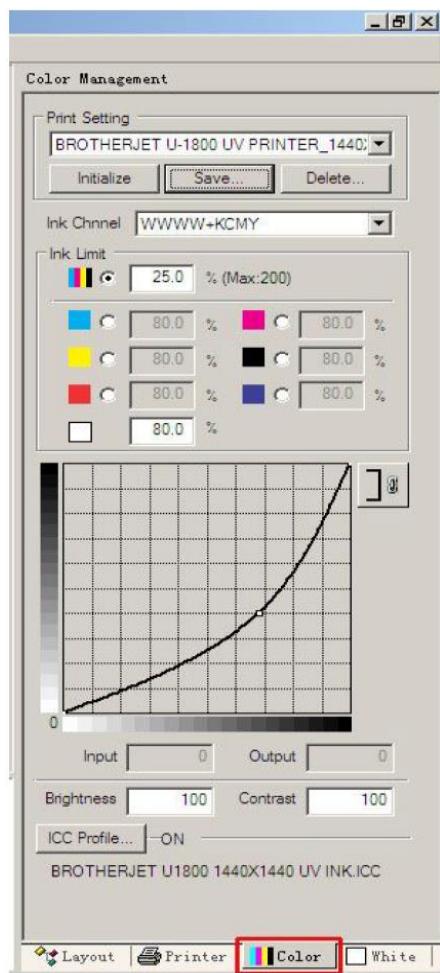
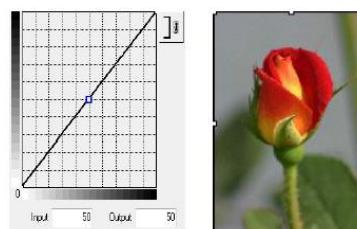
Operation

Normally, you can adjust color of image by use of basic curve.

If you click left button of mouse on curve, you can add point.
If you click left button of mouse on curve, you can move point.

If point is changed into blue color, you can modify input and output values.

If you click right button of mouse, point will disappear.

Basic

Bright

Dark


Ink Channel = choose the option that matches the ink channel make up inside your printer. If you are not sure, contact artisJet Support for assistance.

Ink Limit = set as desired, the available range is 1 – 200% (relative to the resolution you have set in the Printer tab). The ink limit can be set for both color and white printing separately. The color ink limit can be set as an overall value for CMYK, or individually for greater control. The color curve graph is also available for advanced color manipulation.

- Normal Media: 25%
- Solvent ink with pre-coat: 35%
- Direct Solvent Ink: 20 – 30%
- Textile ink: 80 ~ 120%
- White ink: normally set as 120 ~ 150%

Adjust ink amount according to characteristic of media

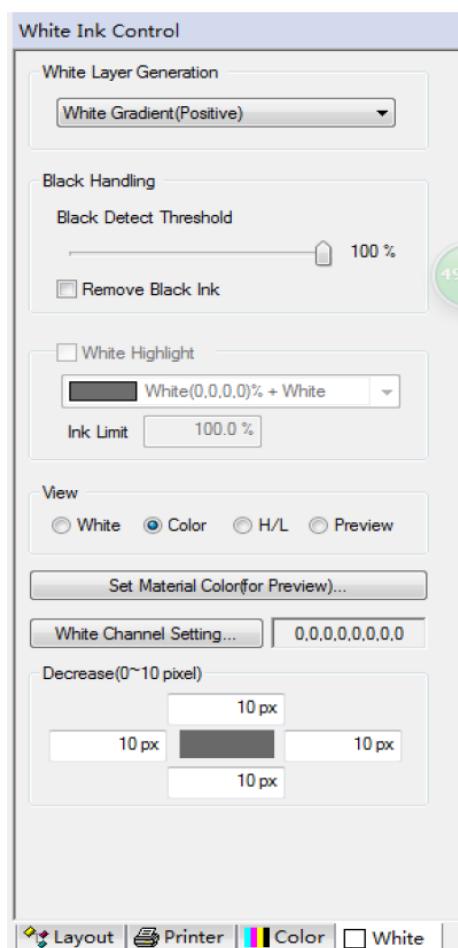
Brightness and contrast adjustment

For a document to print the image brightness, contrast can be adjusted. Change the value in the print preview window and the changed picture will be displayed.

ICC Profile = set as desired, artisJet supplies a generic profile for each printer model and ink set. Third party profiles can be used by adding the necessary .icc or .icm file to the following location in artisRIP: V.8.3.4. root folder and by restarting.

2.2.2.7. White Tab

Set the preferences for printing with white ink in the White tab. White printing is primarily designed as a color under base layer or highlight for non – white or non – porous substrates.



White Layer Generation

Generated within the screen white and black, the percentage adjustment will be proportioned to preview.



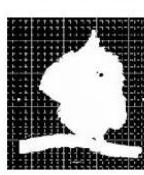
Fill All Area

White is printed as a solid covering the entire image size.



100% White Under any colored pixel

Transparent layers are respected and white is only printed where there is a color pixel.



Gradient white under any colored pixel

As 100% option above except white is printed as a greyscale of the image.



White Gradient (Negative)

Creates a negative gradient, color pictures will print properly.



Depending on the shade of the bright part of the screen to print; printing does not hog the dark areas.



White Gradient (Positive)

Creates a positive gradient. The best on the screen bright part almost does not print white ink. Shades of dark grey part without high concentrations as the white ink is printed.



Black Handling

Detection of black can be manipulated by a percentage or removed completely, if you do not wish to print white under any black pixel in your image. This is useful if the density of blacks is being “washed out” by the white under base layer.

When white printing “How to Create White in” 100% black in color as part of the shades of color in the white part, only if the two apply. Higher the percentage value to lower part if the black color does not print.



White Highlight

Add a white highlight to the image and specify the ink limit of that highlight. When used, and after the white and color passes are printed, there will be a white highlight surrounding the color print. The size of the highlight depends on the ink limit setting.

Highlight option is only available for images with transparent layers.

View

Choose which print preview is shown in the flatbed working area.

White

Shows a preview of exactly which parts of the image will be printed with white ink based on the current options selected.

Color

Shows a preview of exactly how the image will be printed with color ink based on the current options selected.

H/L (highlight)

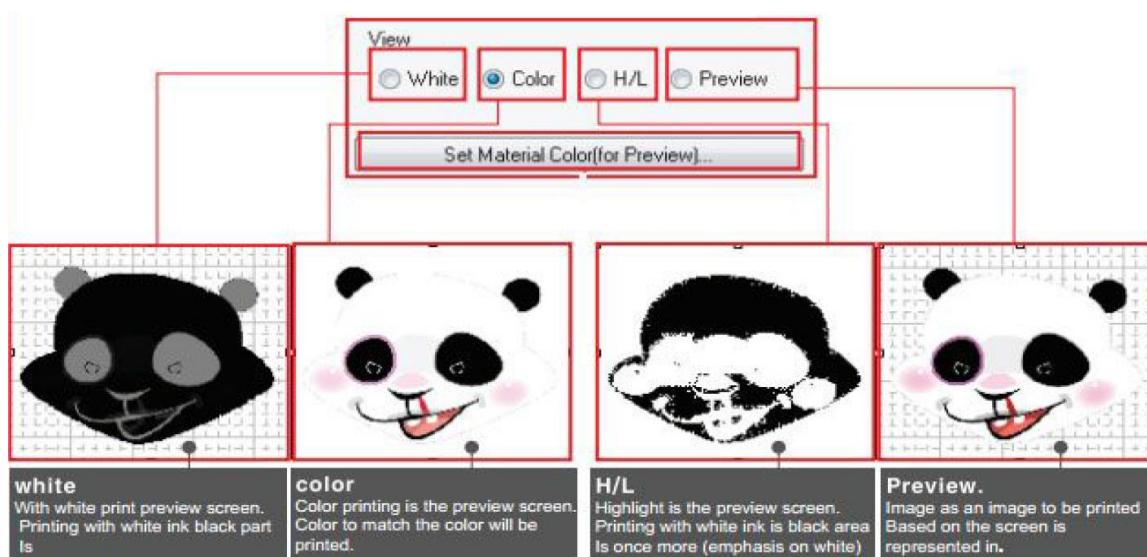
Shows a preview of exactly how the finished print will look with the highlight option enabled and based on the current options selected.

Preview

Shows a complete preview of how the image will be printed based on the current options selected.

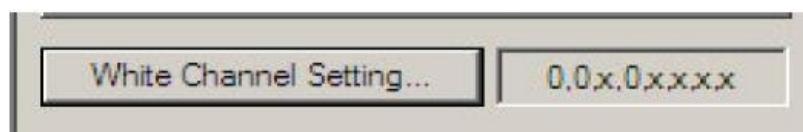
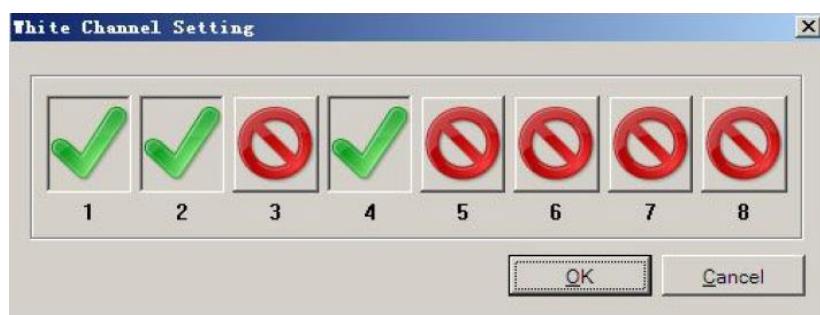
Set Material Color (Preview)

Choose which color is to be displayed as the material background when using the white preview.

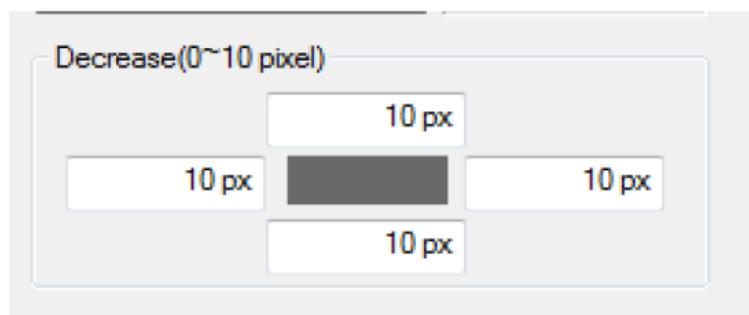


White Channel Setting

When using WWWW + CMYK, CMYK + WWWW, WWWW + WWWW ink channel setting and one or several white ink print head nozzle is damaged or blocked, you can disable.



In case you print color image by using the photo mode, there might be overprinted pixels within white area. The decrease function enables to reduce overprinted white area (0 – 10 pixels).



2.3. Case Study

2.3.1. Initialization for common job

Open artisRIP V.8.3. by double clicking the software icon from where the software setup file was placed.

Open the File window at the top left corner of the software window and set the page margins:

File > Page Margin Setup...

From the same File window dropdown, set the size values of the print work:

File > Unit > Inch/mm/cm

On the right side panel window, select the Layout Tab and set the width and height of the paper size:

Layout > Paper Size > Width, Height

Set width and height of flatbed printer from the Printer tab.

Printer > Printer: Currently connected printer

Printer > Port: Currently connected printer port.

2.3.1.1. Open file

At the top left corner of the software window, click File and choose Open from the list:

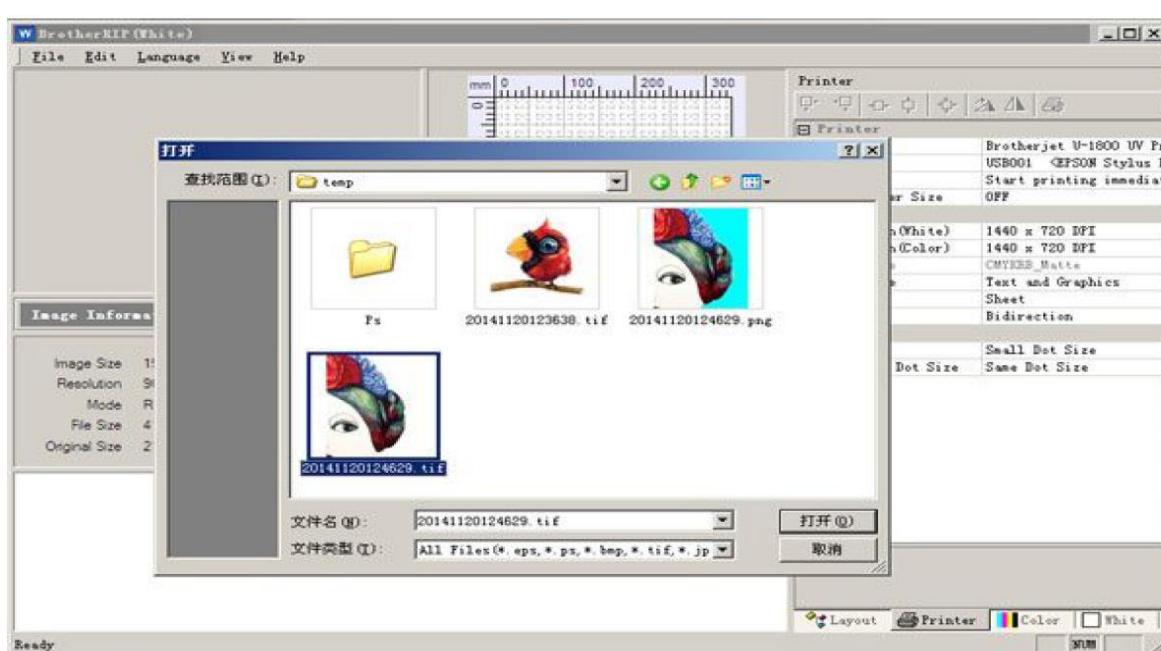
File > Open: Select expected image

To start a printing job, you must use one of the compatible file formats for images: psd, eps, png, ps, tif, jpg, bmp.

When using the CMYK mode, the recommended file formats are: eps, ps, tif file.

From the Layout tab, adjust the output position and output size:

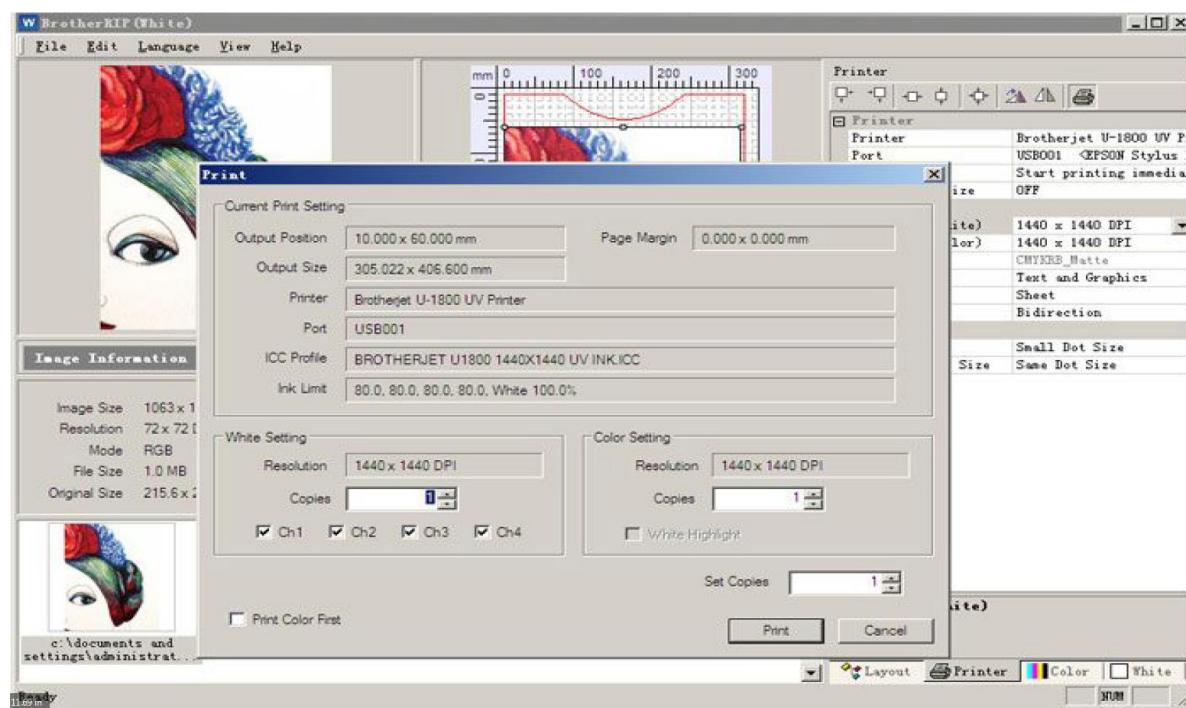
Layout > Adjust "Output Position, Output Size"



2.3.1.2. Print

At the top left corner of the software window, choose File and select Print from the list.

The F10 button from the keyboard can be used as a shortcut to open the print dialogue window.



The top half of this window shows a review of the major preferences as they are currently set. If any setting appears incorrect, cancel the print dialogue window and rectify.

2.3.1.3. Print Dialogue Window for artisJet flatbed printers

White setting

Set the number of white print passes for each material.

After setting the resolution setting and the number of copies Channels vary depending on the place where the prints are (eg: WWLcLm + CMYK):

CH1 and CH2 channels: WW printed two nozzles;

CH3 and CH4 channels: LcLm two nozzles.

These will be printed separately.

Check the four nozzles by printing at the same time.

Note: Lc = light cyan; Lm = light magenta.

Color setting

Set the number of color print passes for each material.

Set copies

Set the number of copies to be printed.

Working example:

Assuming there is one image covering the entire flatbed and requires printing. That image requires two white channels and one color pass to complete the print run to one piece of material. Now, assuming there are five pieces of material to be printed, each with the same image. In this case, the print dialogue window should be completed as follows:

White setting = 2; Color setting = 1; Copies = 5.

Once Print is selected, the remainder of the print run is controlled entirely from the printer's keypad. The printer will print each pass as follows:

1. White print pass, White print pass, Colour print pass;
2. Remove finished print material;
3. Place new material on the flatbed printer's working table;
4. Steps 1 – 3 are repeated four more times.

Print Color First

When the White Setting is set to the value of 1 or higher, white ink will always process any color print pass. Ensure the printer is ready to print before selecting Print.

Print setting for artisJet flatbed printers

For white setting, set the value to 1 to print a white ink pass, color setting must be 0.

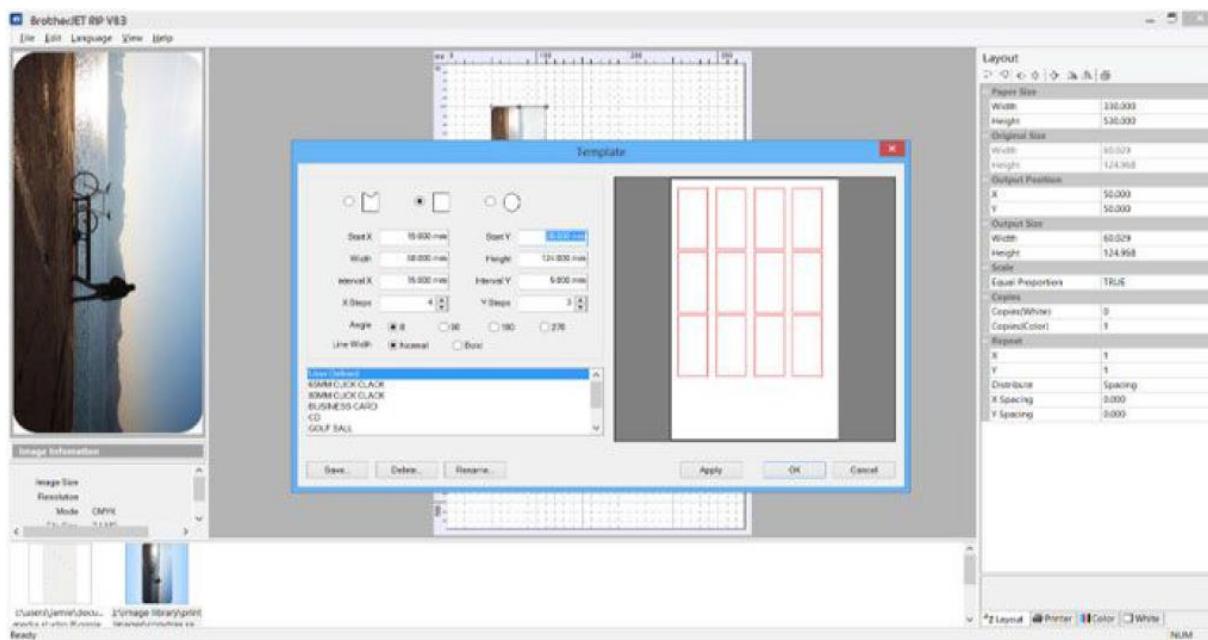
For color setting, set the value to 1 to print a color pass, white setting must be 0.

The copies value set it to 1.

2.4. Template

Access the template menu from View window:

View > Template



2.4.1. Create a new template

Choose the basic outline shape for the template slots. Options are wallet, rectangle / square or circle. These are not shape masks, only layout outlines. Any required masking of your image must be done before opening the image in artisRIP.

Input the necessary values for each option:

Start X = Print start offset from the left;

Start Y = Print start offset from the top;

Width = Width for each slot;

Height = Height of each slot;

Interval X = space between each column;

Interval Y = space between each row;

X Steps = Number of columns;

Y Steps = Number of rows;

Angle = Choose the automatic image rotation at 90 degree intervals (default = 0);

Line Width = Width of slot outline (default = normal).

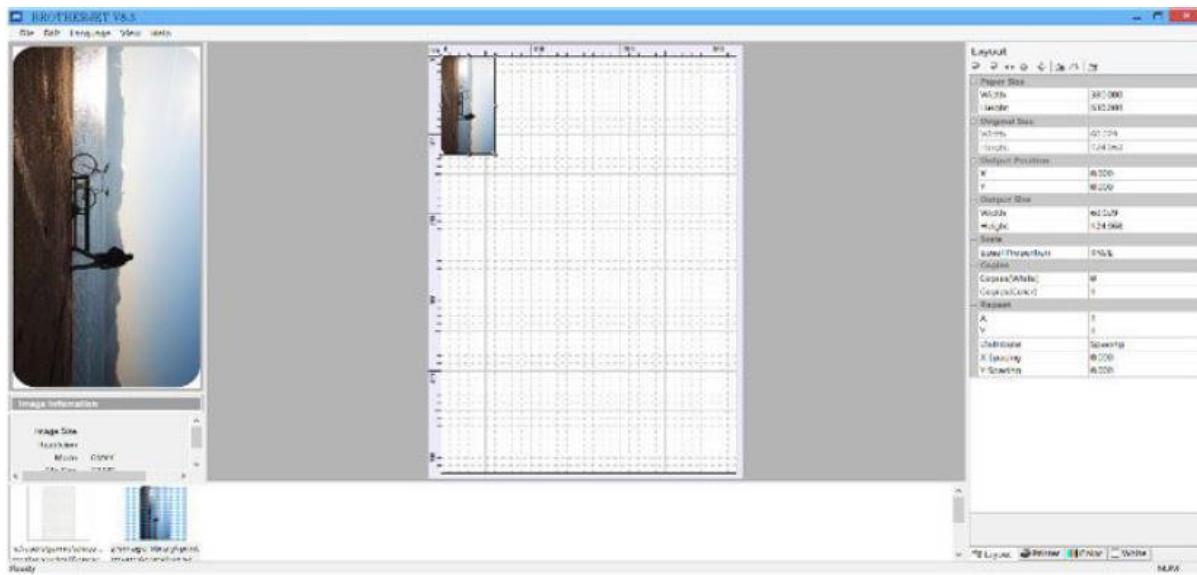
Save the new created template by clicking the Save button.

A "Save" window will open. Set a name for the template.

2.4.2. Applying a template

Select the desired pre-saved template from the Template window, choose Apply and click OK.

Open an image



Apply the template

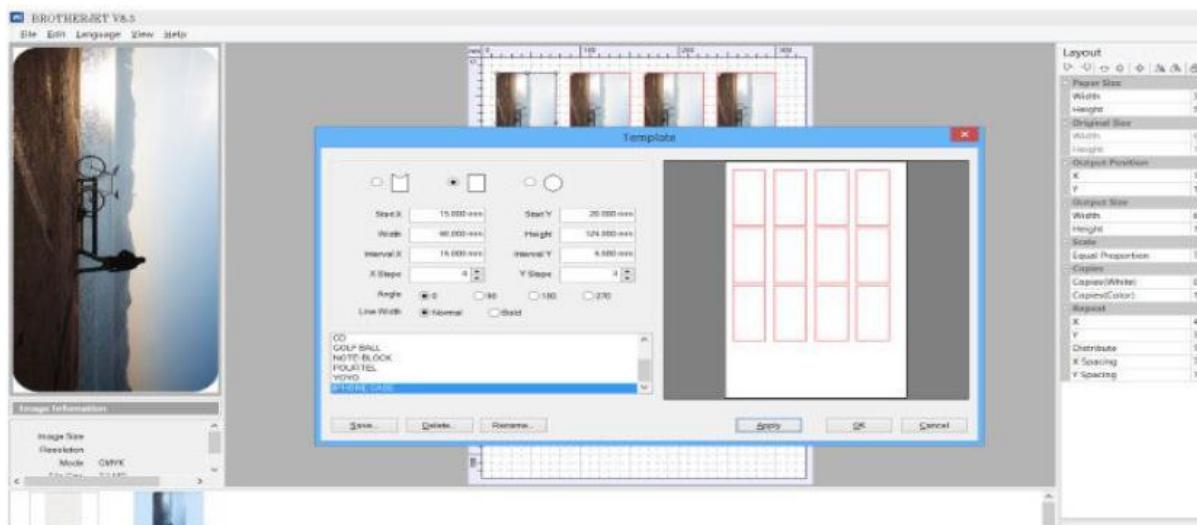
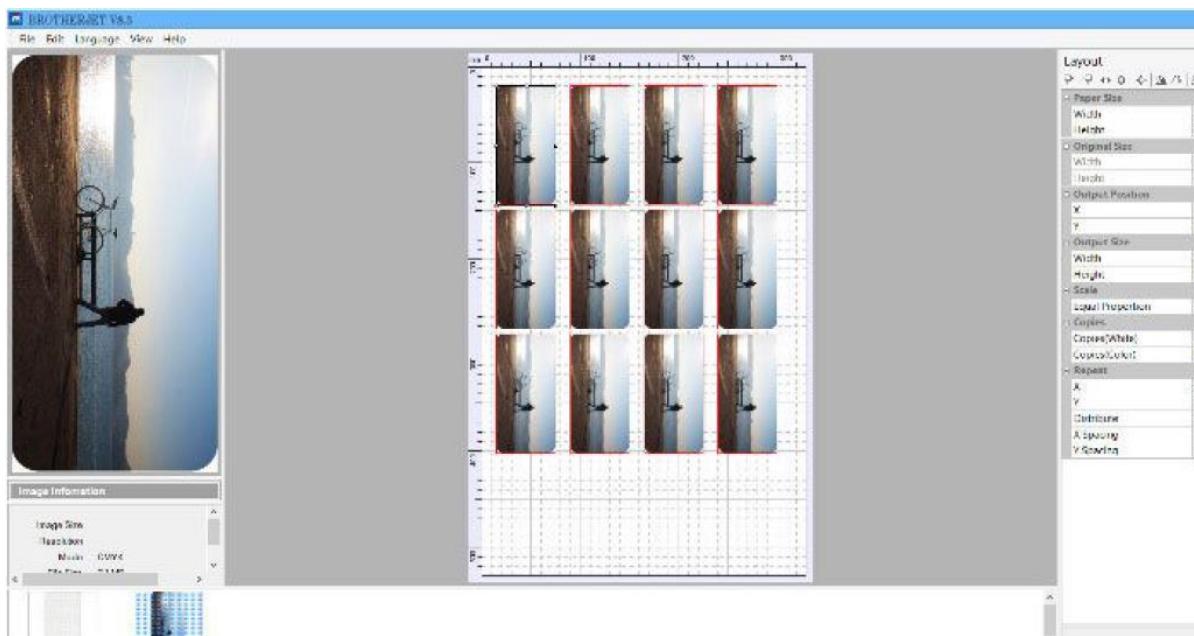


Image is duplicated across the entire template.



2.4.3. Printing different images in a single template

The Template feature in artisRIP only replicates a single image. To print different images in a template, lay up the complete artwork outside of artisRIP and save as an artisRIP compatible file type (psd, eps, jpg, png, tif, bmp, ps).

If you are using an artisJet manufactured bespoke jig print fixture, a template will be supplied in the format of your choice. artisJet can supply templates for most popular graphics packages, such as Adobe Photoshop, Adobe Illustrator and Corel Draw.



CUSTOMER CARE CENTER

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