ArtisJet-T3000 T-shirt Printing Procedure

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Part 1. Preparation

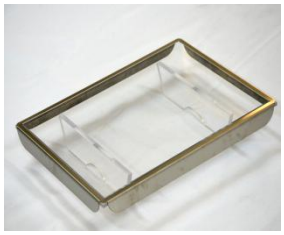
1) Printer: ArtisJet-T3000
2) Software: ARTISRIP V8.2.3
3) T-shirt: White Color T-Shirt & Dark Color T-Shirt
4) Jig: T-shirt Jig
5) Coating Sprayer
6) Heat Presser
7) T-Shirt Coating (Pre-treatment Solution)
8) Picture & Photo to be Printed (Artwork)


3000 Printer



RIP


T-shirt


T-shirt JIG


Coating Sprayer


Heat Presser


Coating

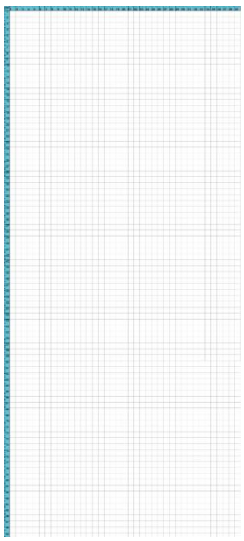


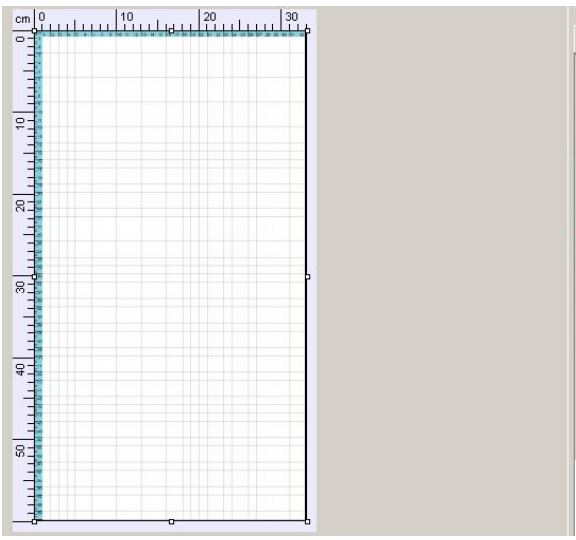
Artwork



Part 2. T-Shirt Jig Position Fixing

Confirmation of Printing Start Line

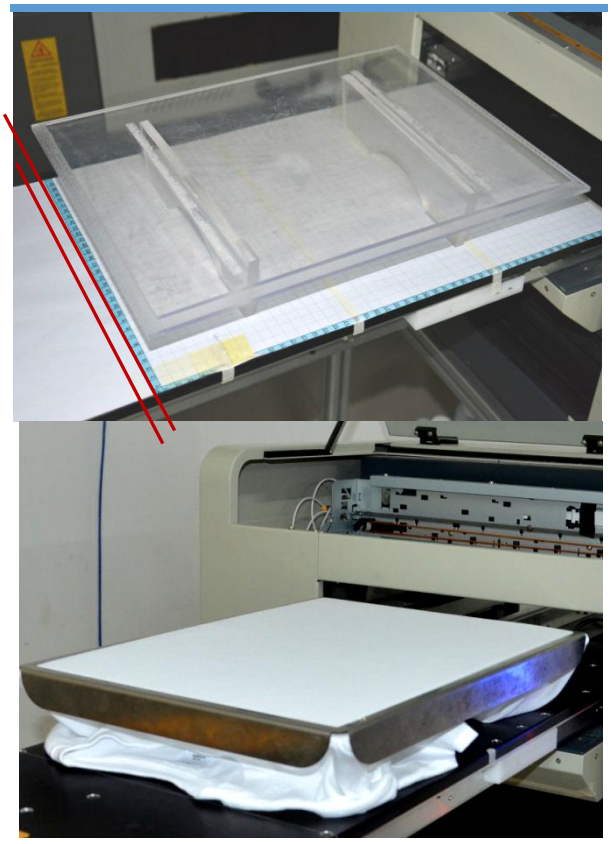




1. White Paper Pavement on Platform
2. Scale-plate Printing
3. Red Line Indicates the Position where machine start printing

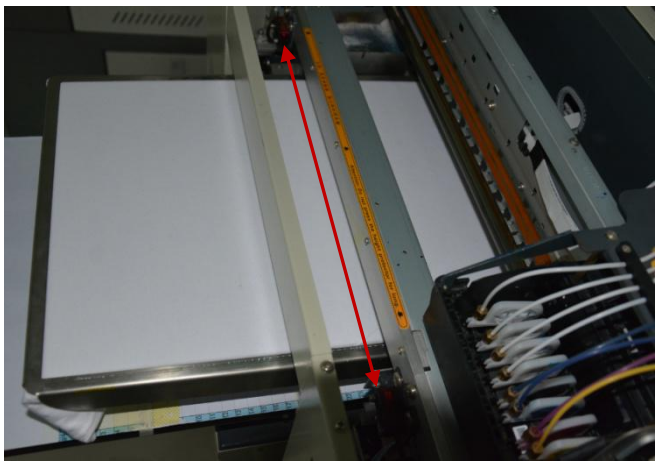


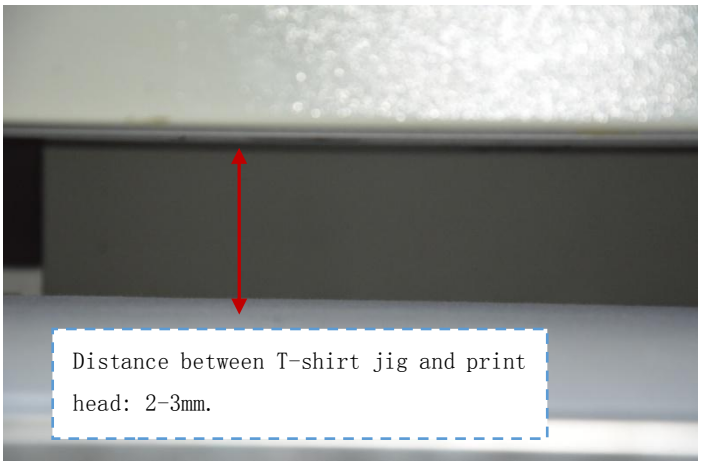
1. Outline of T-shirt jig should be paralleled with the position where printing starts
2. The side line of T-shirt should be paralleled with the side edge of the platform



Part 3. Height Adjustment

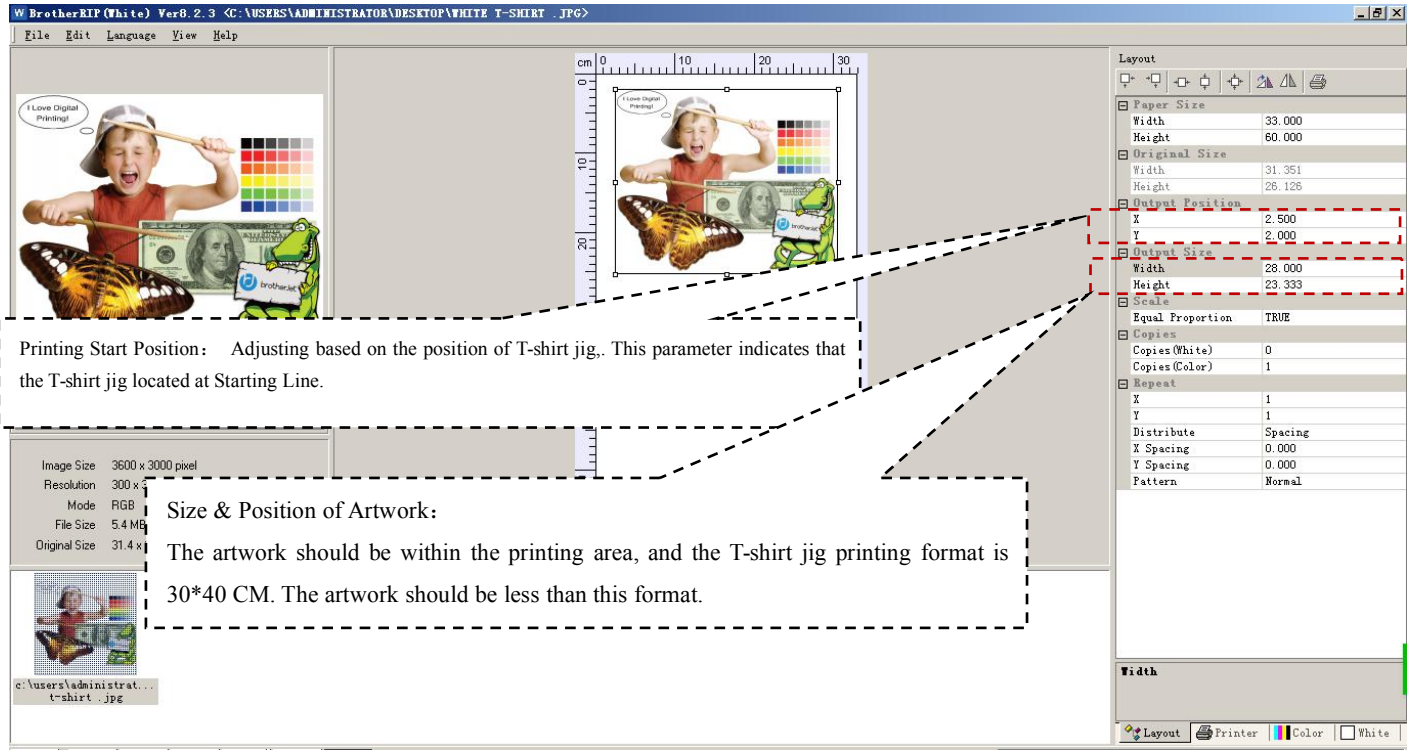
1. Backward the platform after T-shirt jig fixed into the position where the height sensor locates. Auto-adjusting the height and slightly lower the position in order to make the distance between print head and T-shirt ranges from 2mm to 3mm (NOTICE: Normally, the material of T-shirt Jig is transparent acrylic, therefore, the auto-adjusting will be out of functioning. We have to make sure the adjusting shall proceed after the T-shirt jig fixing. OTHERWISE, the platform will keep moving upward and the T-shirt jig will damage the machine.
2. After T-shirt jig fixing and platform height adjustment, backward the platform to the home position. Ready to print.



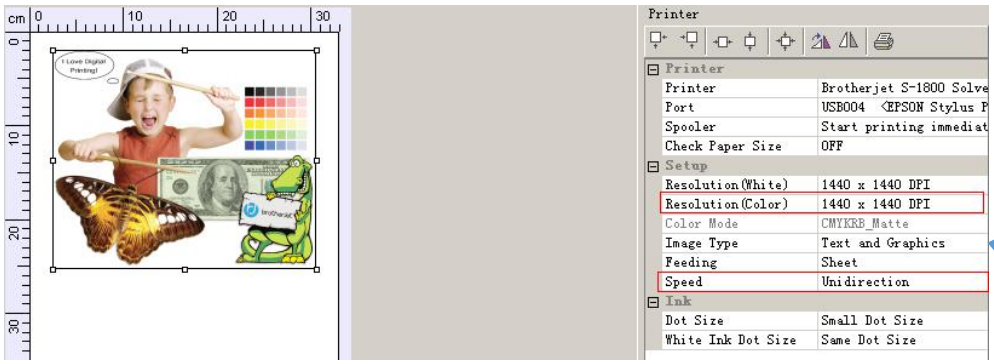


Part 4. Software Setting

1. Printing Format & Position Setting



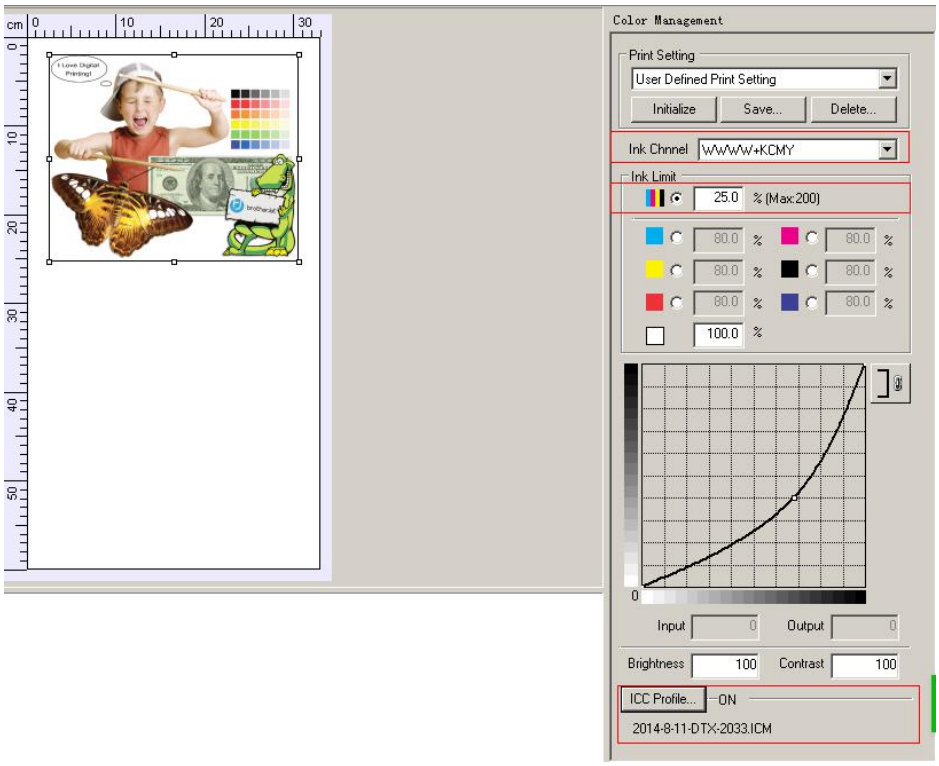
3. Printing Resolution Setting



Printing Resolution:
Normally it should be 1440*1440 dpi or 1440*740dpi

Printing Speed:
"Bidirection " or "Unidirection". "Bidirection" will printing faster.

2. Ink Limit Setting

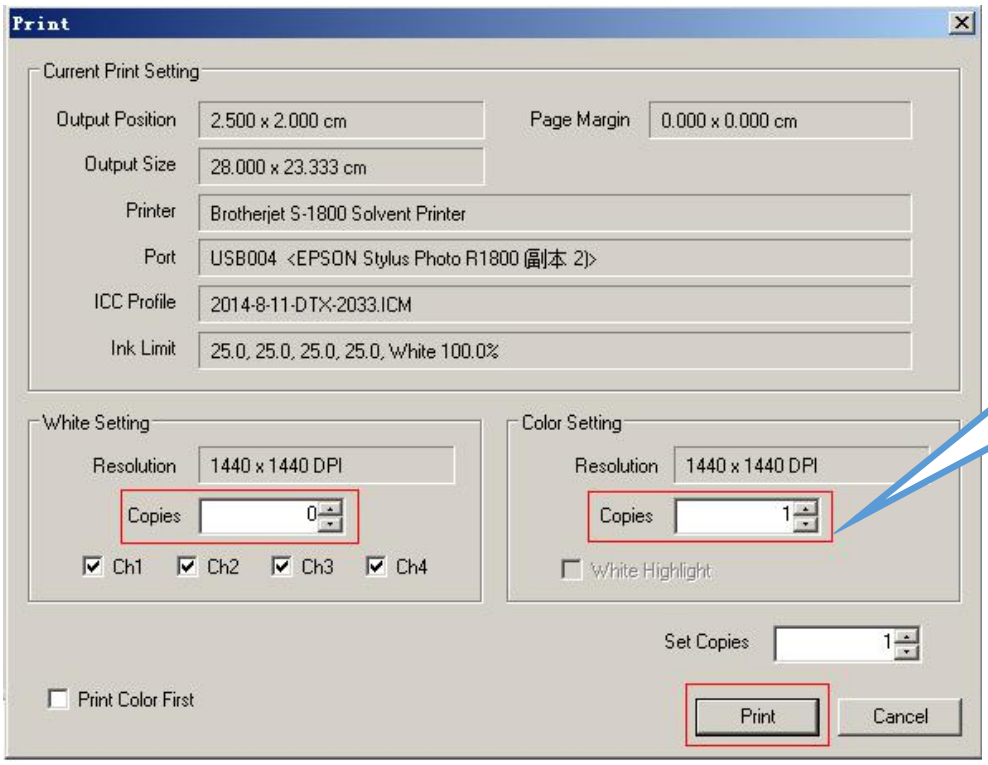


Channel Options:
WWWW+KCMY or KCMY+ WWWW ，based on the ink bottles' sequence

Color Ink Limit ：
Color ink limit for T-shirt printing shall be 25% . It can be slightly more or less according to different Artwork.

ICC Profile:
Select T-shirt ICC Profile and open it. The ICC profile can help adjusting the color and make the printing result better.

4. Output Setting

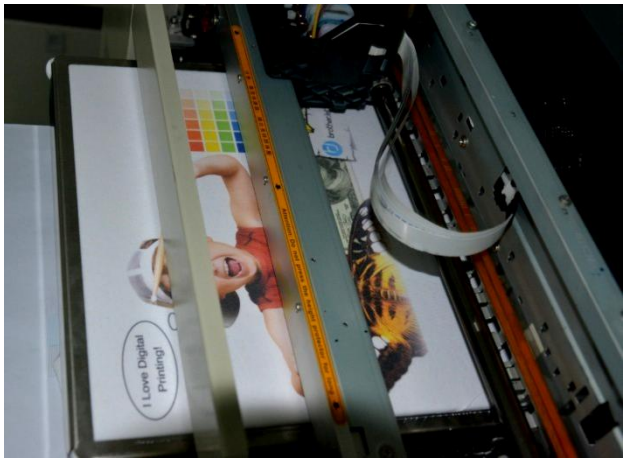


Color Ink Printing:

1. White Setting: "0"
2. Color Setting : "1"

Part 5. WhiteT-shirt Printing

1. Printing





2. Heat Pressing

1. Tile horizontally the printed T-shirt on the flatbed of the heat presser and put the protective paper on it.
2. Keep heat-pressing for 60 seconds to 90 seconds after the temper reached 170 ˚C.





Part 6. Dark T-shirt Printing

1. Coating spraying on the T-shirt

Pretreatment of coating spraying is necessary for printing on dark T-shirt which can make white ink adhered onto the surface of dark T-shirt. Here below is the important points:

1. The coating coming out from the sprayer should shaped like nepheloid zone.
2. Spraying the coating onto the T-shirt very quickly and evenly. The white result shall be too light and uneven if the coating layer is too thin. Conversely, the printed T-shirt will felt like colloid and very hard.
3. After coating spraying, keep the T-shirt even without folding, press it and dry out.



2. Heat Pressing Issue：

1） Adjust the temperature onto around 170 ˚C.

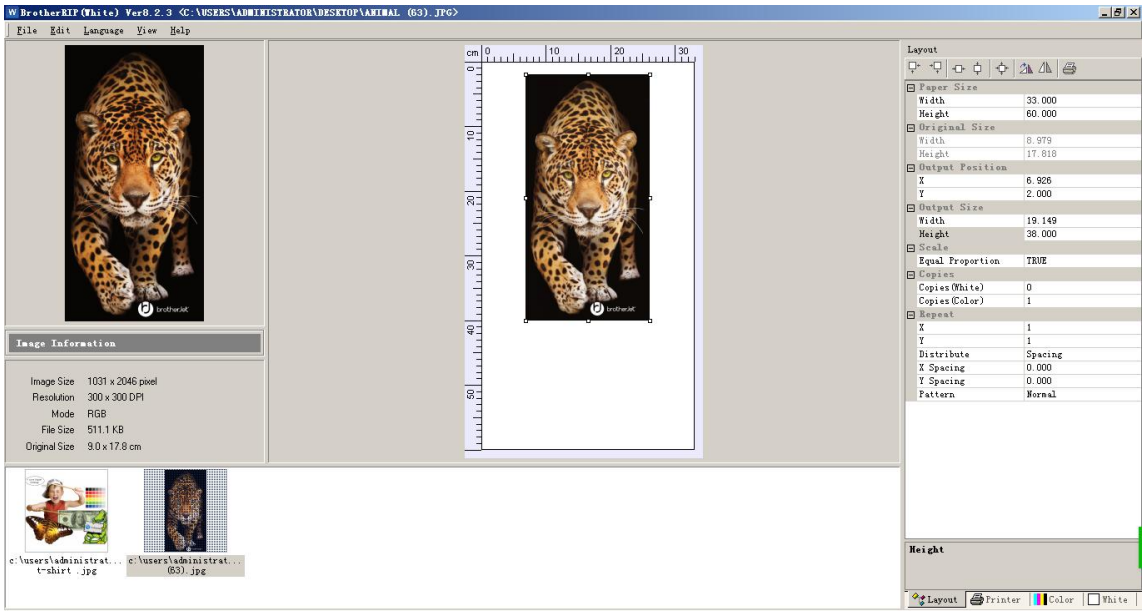
2） Lay the T-shirt on the flatbed of the heat presser and keep it even.

3） Put the protective paper onto the T-shirt avoiding any damage to the T-shirt.

4） Baking the coated T-shirt for 5 minutes, then heat pressing for 4 seconds or so. The coater should be heat pressed into dry totally, otherwise, the final result will not be very good.



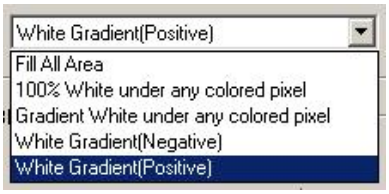
3. Software Setting



Input the image and set the size & position.

White Layer Generation Options：

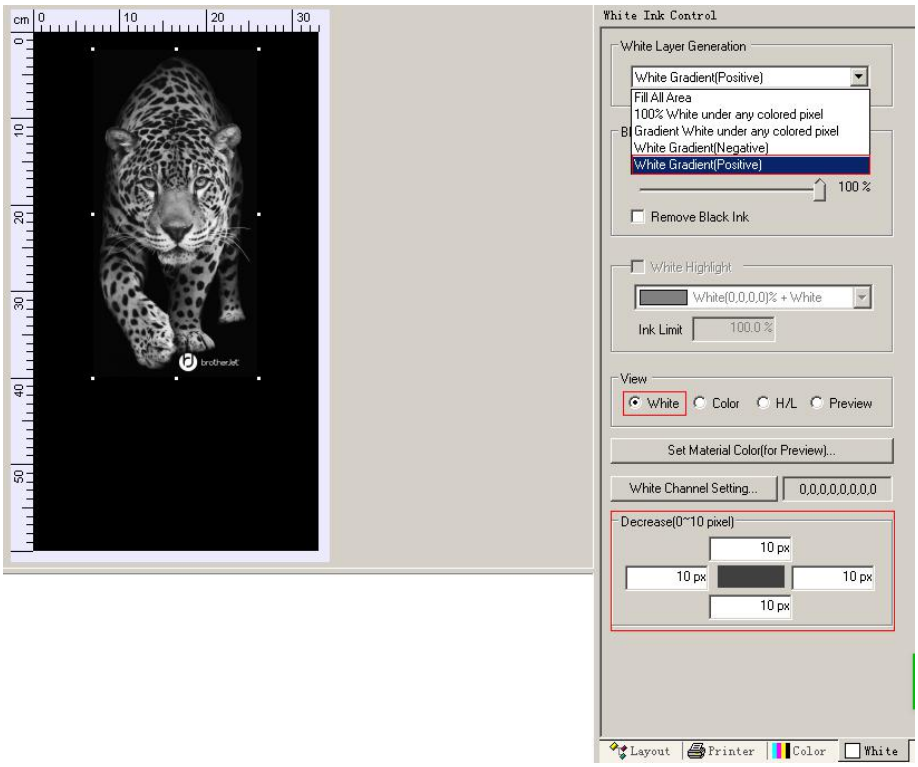
1. Open “View” and select “White”， then we can preview the white ink print result.
2. White layer generation including:

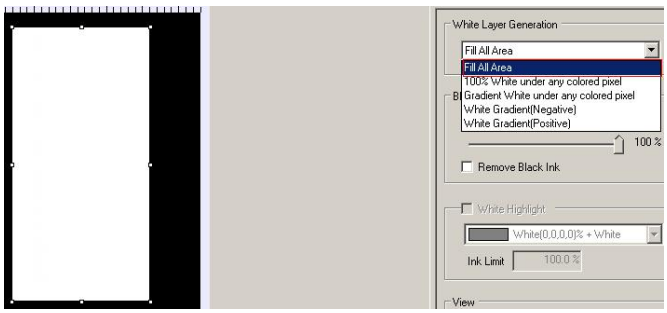


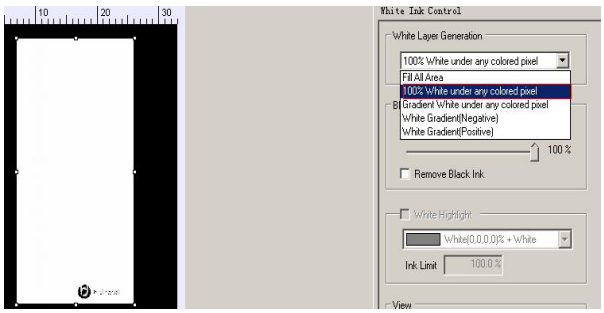
1） Select the proper white layer generation. The lighter of the white ink, more white ink will be printed out.

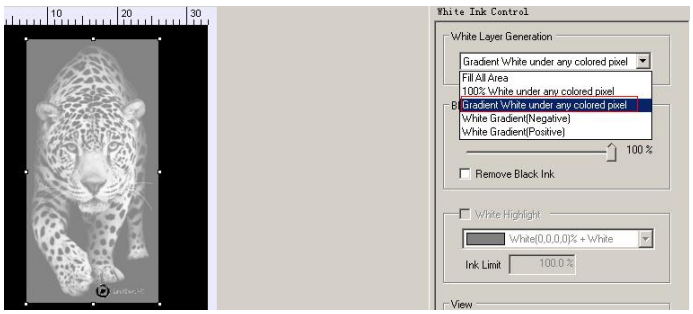
2） Except the above options, we may also need to do the picture process with Photoshop in purpose of finding out suitable white layer generation.

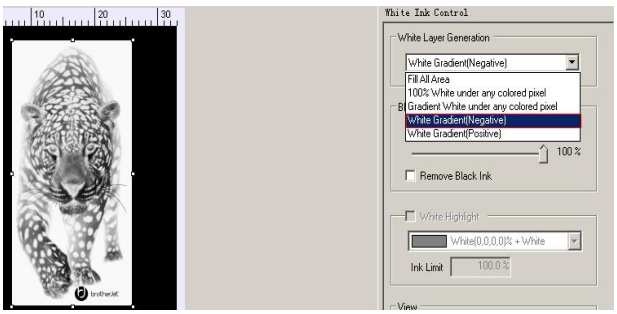
3. White Ink Decrease：Avoiding extra white edge comes out from the color ink, set the four status as the max. ”10 px“



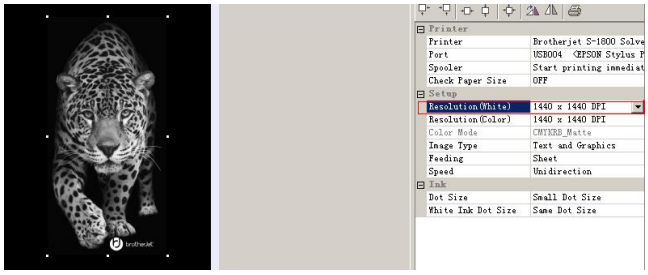


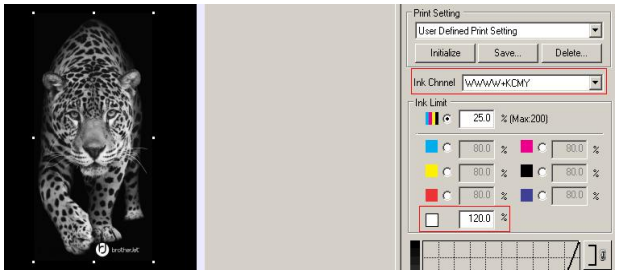


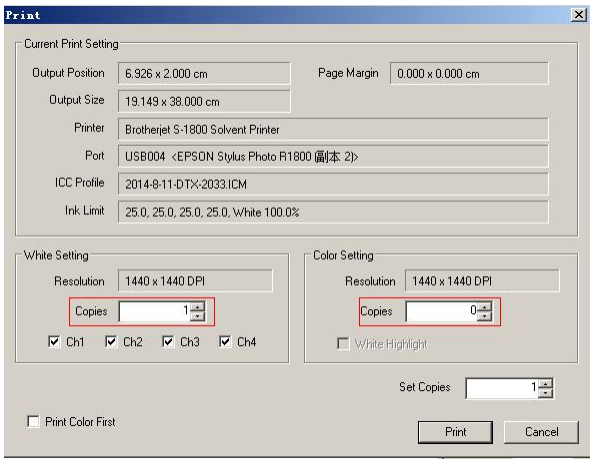




4. White Ink Printing

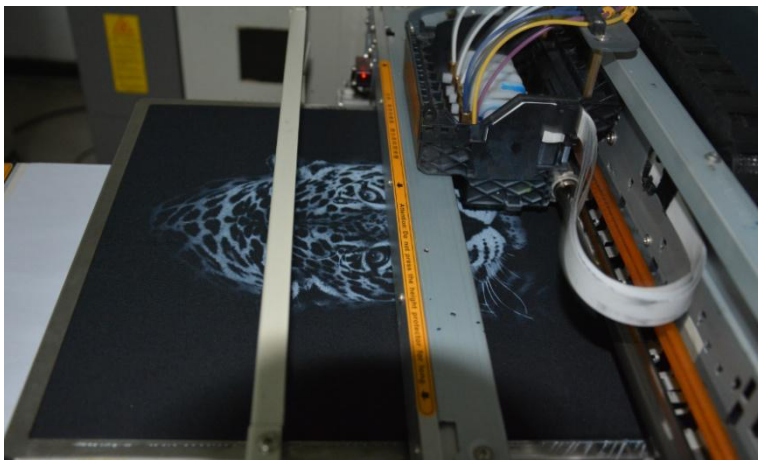






White Ink Printing Setting

1. Resolution Setting：1440*1440 dpi 或 1440*720 dpi
2. Ink Limit Setting：Normally it should be 60%-200% according to the print effect.
3. White ink layer generation options：Select the proper one.
4. Output setting：
   White Setting: “1”
   Color Setting: “0”





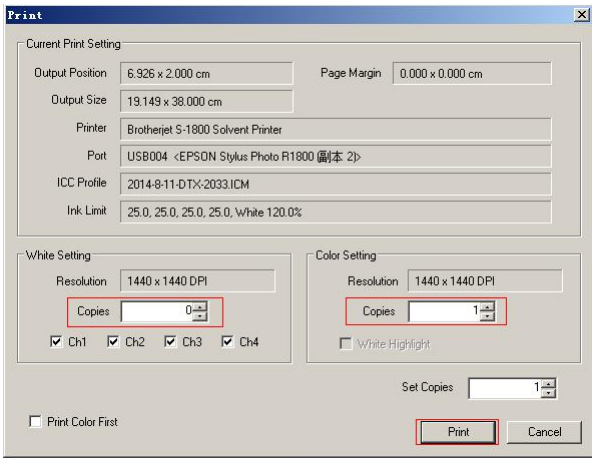
5. Color Ink Printing

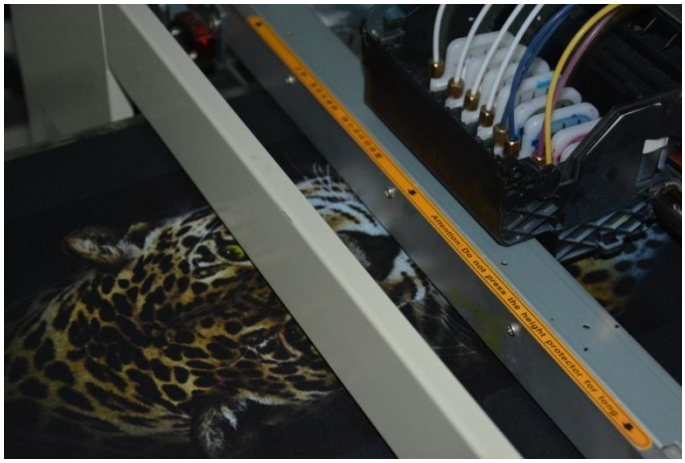
Color Ink Setting

1. Resolution Setting：1440*1440 dpi or 1440*720 dpi
2. Ink Limit Setting：25%
3. Output Setting：

   White Setting: “0”

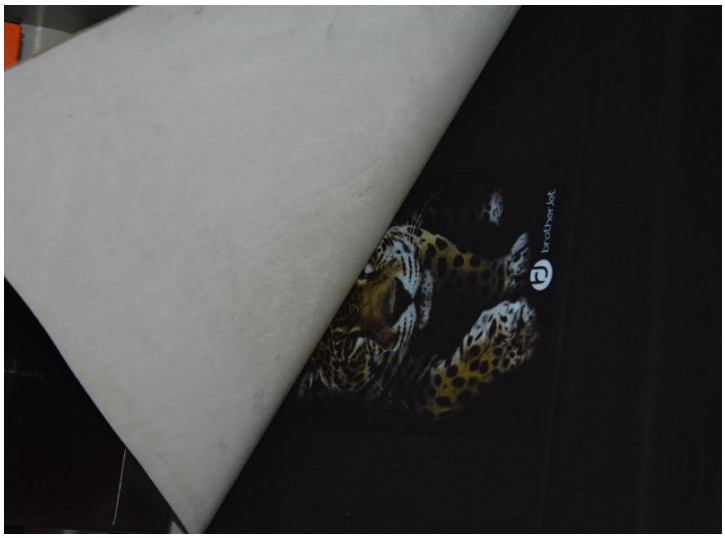
   Color Setting: “1”







6. Heat pressing



Dark Color T-shirt Heat Pressing

1. Lay the printed T-shirt onto the platbed of the heating presser and put the protective paper.
2. Adjust the temper onto 170 ˚C and keep it for 120 seconds.

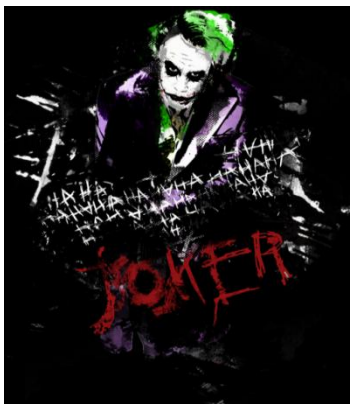


Part 7. Picture Processing for White Ink Printing

Once the RIP Software can not meet the result, we need to process the picture with PhotoShop.



Original image

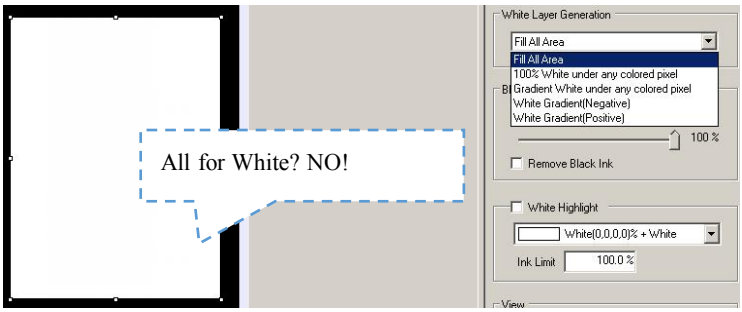


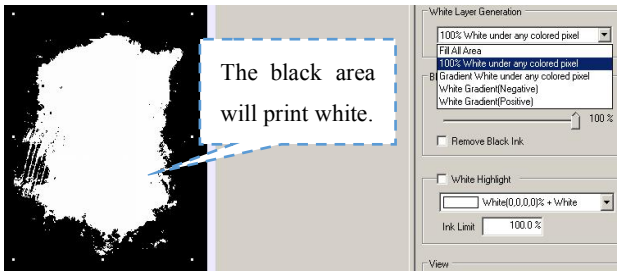
Final Print Result

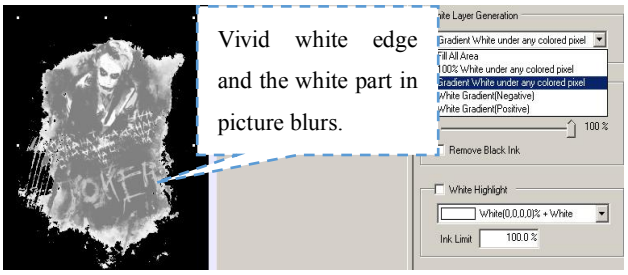
Printing Result:

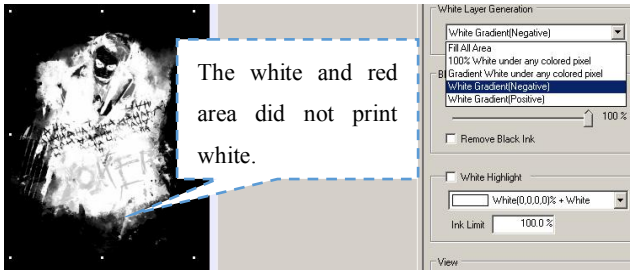
1. Print this image on the black T-shirt.
2. Except the Black color area, we need print out all the other colors including White, Red, Grey, Purple and Green.
3. The final print result should be harmony and natural with the T-shirt itself.

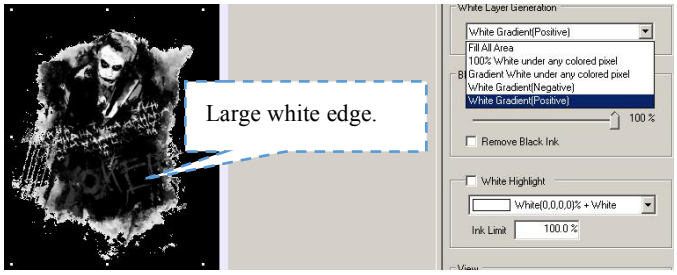
All the following can not meet the printing requirement.

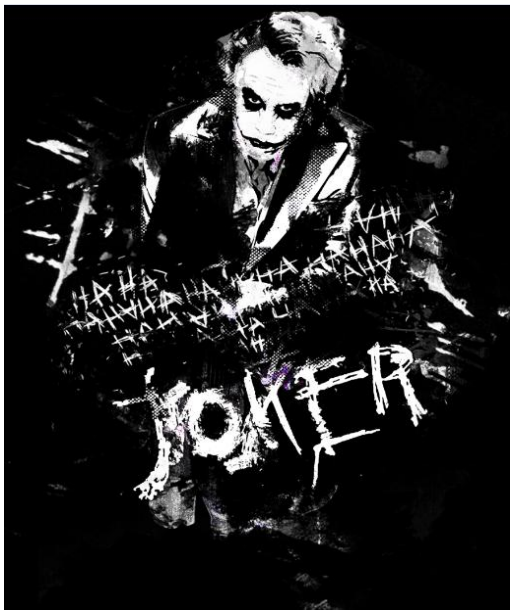








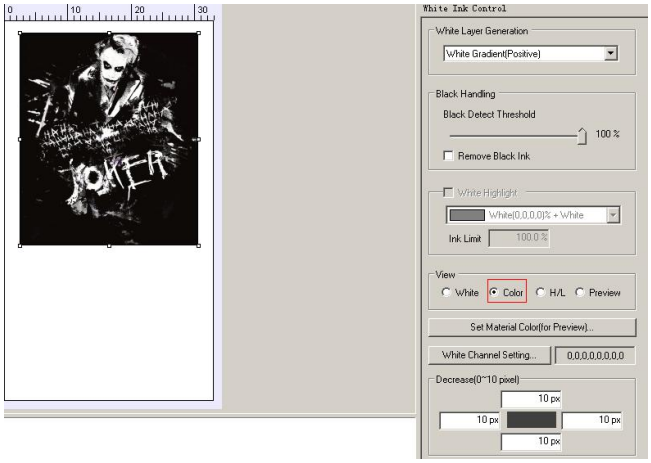


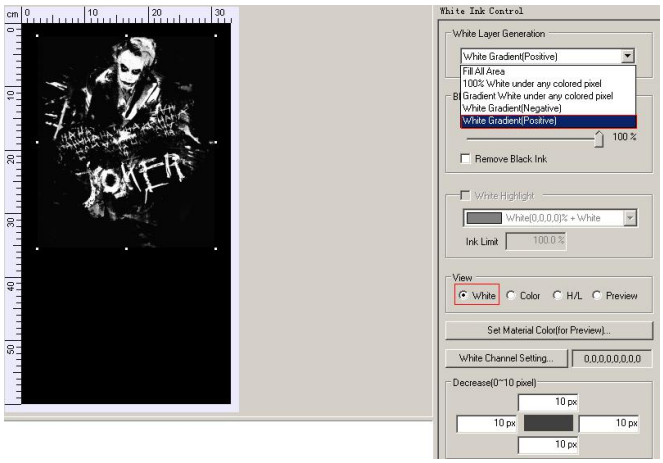


Effect picture after processing with PHOTOSHOP

1. Adjust all the area which need print white ink into white, then make it dark or light according to the original color.
2. Input the adjusted image into software, select the white layer generation option and print.
3. Input the original image into the software and print color.

1. White Ink Printing





2. Color Ink Printing

