SERVICE MANUAL



A3 Size Desktop Flatbed UV LED

BR-Artis U3000 Printer

brotherJet®

http://www.brotherjet.com

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Special Statement

Thank you for investing in a BrotherJet **Artis 3000** printer. As you are getting familiar with your new purchase, kindly take the time to go through this presentation for an in depth understanding of installation.
The installation concludes three steps : Preparation work, Online support and first print.

Preparation work concludes hardware & software works.
This operation process should be done by yourself after reading the menu.

Online support concludes test printing without inks; ink filling; ink following; nozzle check; sample printing guidance.
This operation process will be done on our guidance via online appointment.

First Print will be done with the guidance of our technicians.

brotherJet®
Print Different-The Better Direct Print System Supplier
Color starts with brotherJet®

For more information on The Better Direct Printing System
Contact :

Add: Room 2709, No.2 Fufeng RD, Fengtai District, Beijing, China, 100070
+86 186 1133 3892 ; E-mail: ccc@brotherjet.com

Statement

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All effort have been made to ensure the accuracy of the contents of this manual. However, should any errors be detected, brotherJet would greatly appreciated being informed of them.

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Warning

- Make package inspection before signing in the consignee form from forwarder and take photo as proof if there is any damage for further operation.
- Do not operate this equipment until you read and understand the contents of the service manual. Failure to follow operation instructions could result in personal injury or damage to equipment.
- If may cause personal injury due to using the toxic and non-orignal ink stead of brotherJet orignal ink.
- Do not install the equipment without the instructions or electricity voltage requirements strictly.
- Contact brotherJet before doing any operation of the machine.

Notice

- Keep the children far away from this equipment.
- Operate the UV series equipment with protective glasses.
- Ground wire will be a must to be connected; any failure of ground wire will cause damage to electronics.
- Unpack printer carefully. Any damage please contact us.
- Do not connect power without our instructions.
- Place printer on a stable and steady table.
- Keep at least 20cm for back view space; keep at least 150cm for front view space

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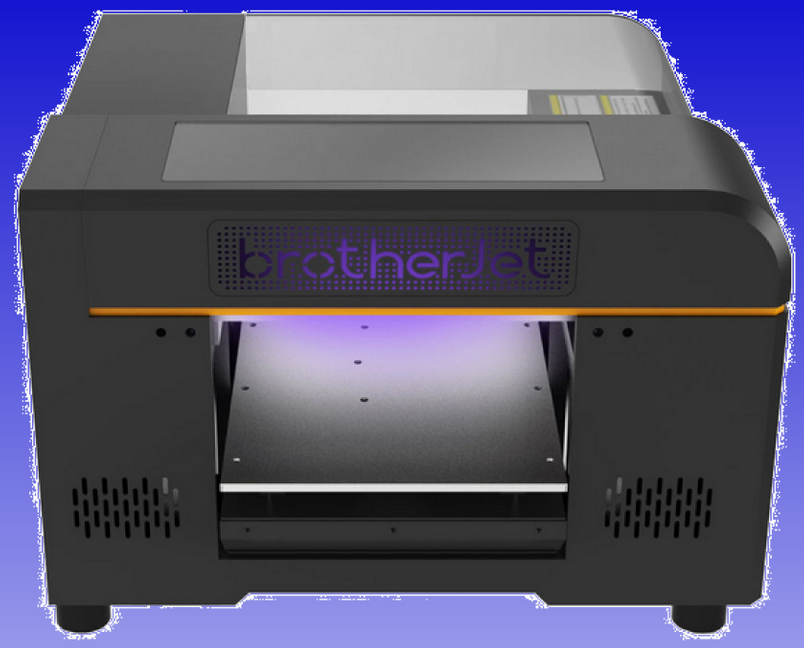
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CHAPTER 1



PRODUCT DESCRIPTION

BR-Artis U3000 Printer

Product Description

1.1 PRODUCT OVERVIEW

The BR-Artis U3000 is a multifunctional inkjet direct printer designed for a wide range of users from individual users to commercial users covering almost all kinds of printing substrates and products.







Three colors for option

1.2 FEATURES

High color print quality
2880 (H) x 1440 (V) dpi printing (Max resolution)

5 colors with W printing capability
Cyan, Magenta, Yellow, Black, White, White, White, White

Equipped by UV LED direct print and fast dry inkjet ink
Direct Print onto all of the printable materials and UV LED lamp fast drying during the print immediately

Refillable Industrial Continuous Ink Supply System
Applied Industrial solvent-resistant ink bottles, ink tubes and dampers with volume of 150ML each bottle, easy refill

Easy User Friendly Control Panel
Front-top view with markable functional buttons

Smart USB 2.0
HS compatibiliHS compatibiliHS compatibiliHS compatibiliHS compatibility

Most of the popular Windows versions exclusive

Intelligent UV cooling and controlling system

Repeat printing functions for fixed quantity print

1.3 FUNCTIONS

1.3.1 Control Panel Introduction





Control Buttons	Functions
UP/Down/ Fore/Back	Controls the workingtable up/ down/fore/back.
	1Click,the table will move for1mm.
	Over 3seconds press, the table will move to end.
MINIUP/ MINIDOWN	For micro table adjustment.
	1click, he table will move for 0.2mm.

1. Ready: Press Ready button for once, the printer will be on.

2. Purge:

3. Pause: Press pause button for 3 seconds, the printer will do auto cleaning process; Press the button for one time, the printhead will move , The printhead can be manually moved to the middle position.

4. Enter: Press it ,the working table will automatic return .

5. Cancel: Press it , the printing will be canceled.

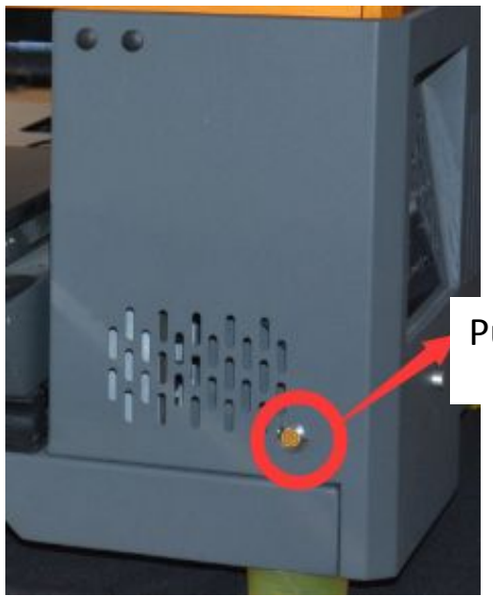
6. UVM: When printing, press it , the UV lamp will be open.

7. Menu: Show the printer menu settings

8. Info: Show the printer working data.

9. N/F: Reserved for added functions buttons

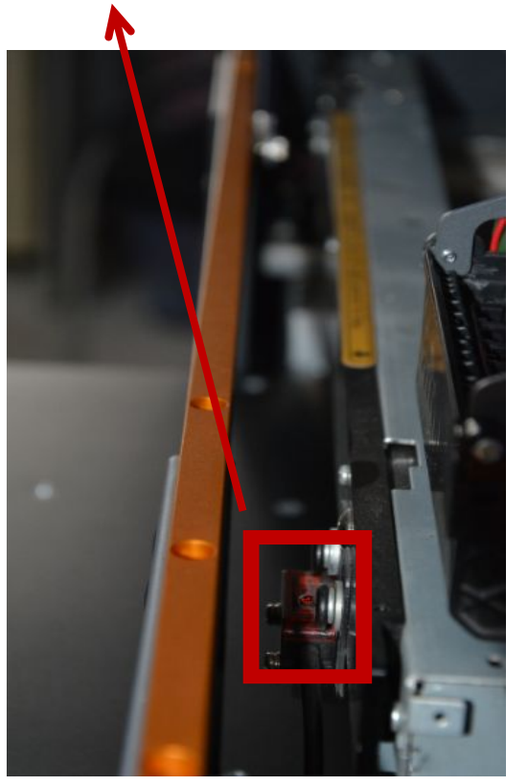
1.3.2 Pumping Waste Ink Introduction



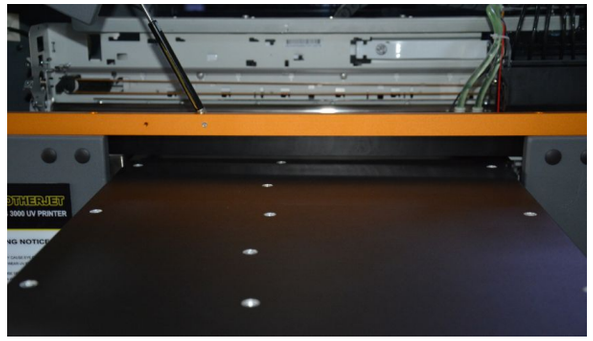
1.3.3 Height automatic sensor introduced

Firstly we have to know: The best distance between the printer head and the printing materials should be **2-3mm**. This automatic height sensor is used for the best distance adjustment. **It's working theory is ray.**

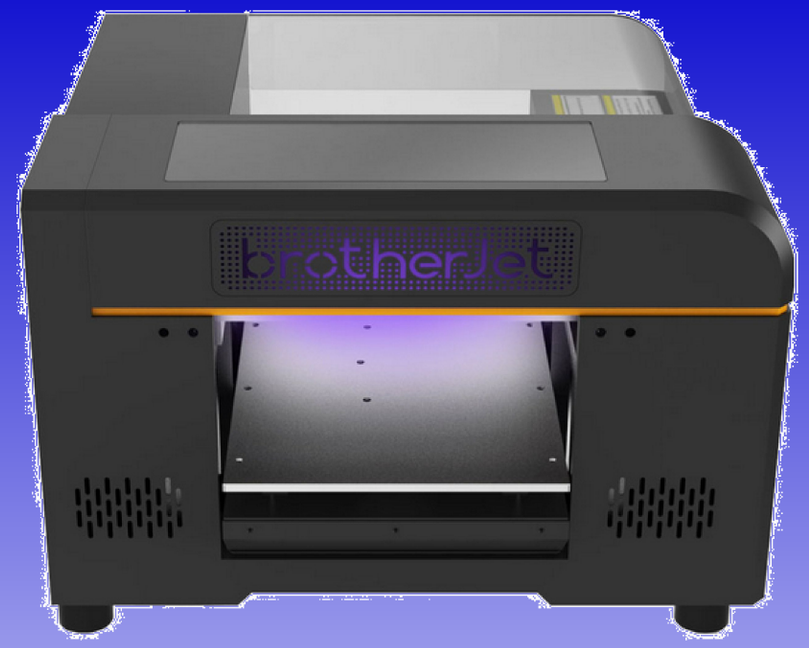
The emitter is in the right side of the machine and the acceptor is in the left side of the machine.
When there is anything that blocks the light, the table will stop moving up. But please **notice**: The sensor can't be used for transparent materials.







CHAPTER 2



PRODUCT INSTALLATION

BR-Artis U3000 Printer

2.1 PRODUCT INSTALLATION PREPARATION

2.1.1 Hardware Work Preparation

Before installation, we have to prepare hardware tools including :

A4 size paper (4 pcs); Double faced adhersive tape (1 pcs);

PC with WIN7 OS. Black nozzle check paper (1 pcs);HIFI camera (1 pcs) ; Audio microphone (1 pcs).

Non-Wovenfabrics (1 bag). Syringe & funnels (6+ 5 pcs).



PC with WIN7 OS



HIFI camera



Syringe & Funnel



Double faced adhersive tape



A4 size paper



Black nozzle check paper



Non-woven fabrics

2.1.2 Machine Basic Checking

UV chilling liquids checking

B**enefits to check**: Any liquid leak will cause the short circuit for complicated electronic compounds. Checking it before installation will avoid the damage to electronics. We could inspect if there is any leak for UV chilling liquids.

Location of UV chilling liquids: It is preserved into chilling fluid container. Liquids will be followedinto UV chilling pipe and then get to UV light.



Chilling liquids container

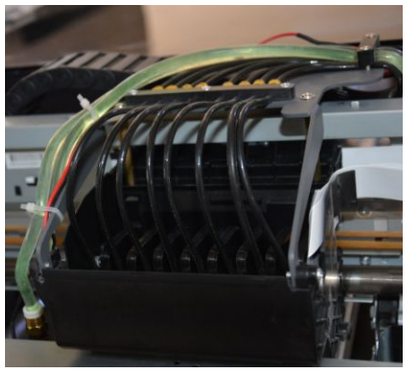


Chilling pipe to UV light

Ink Tube checking

B**enefitst o check**: Correct ink tube installation order will help us get a correct printing result. Any wrong position for ink tube
installation will casue mixing color of inks. Please check if the ink tube order is correct before installation.

Location of Ink Tubes: Ink tubes are connected with ink bottles for CMYK+W and Ink dampers.



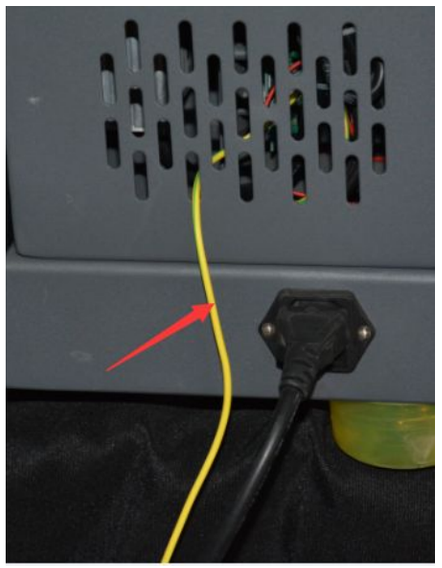
Ink tube in dampers



Ink tune in ink bottles

Voltage & Ground wire checking

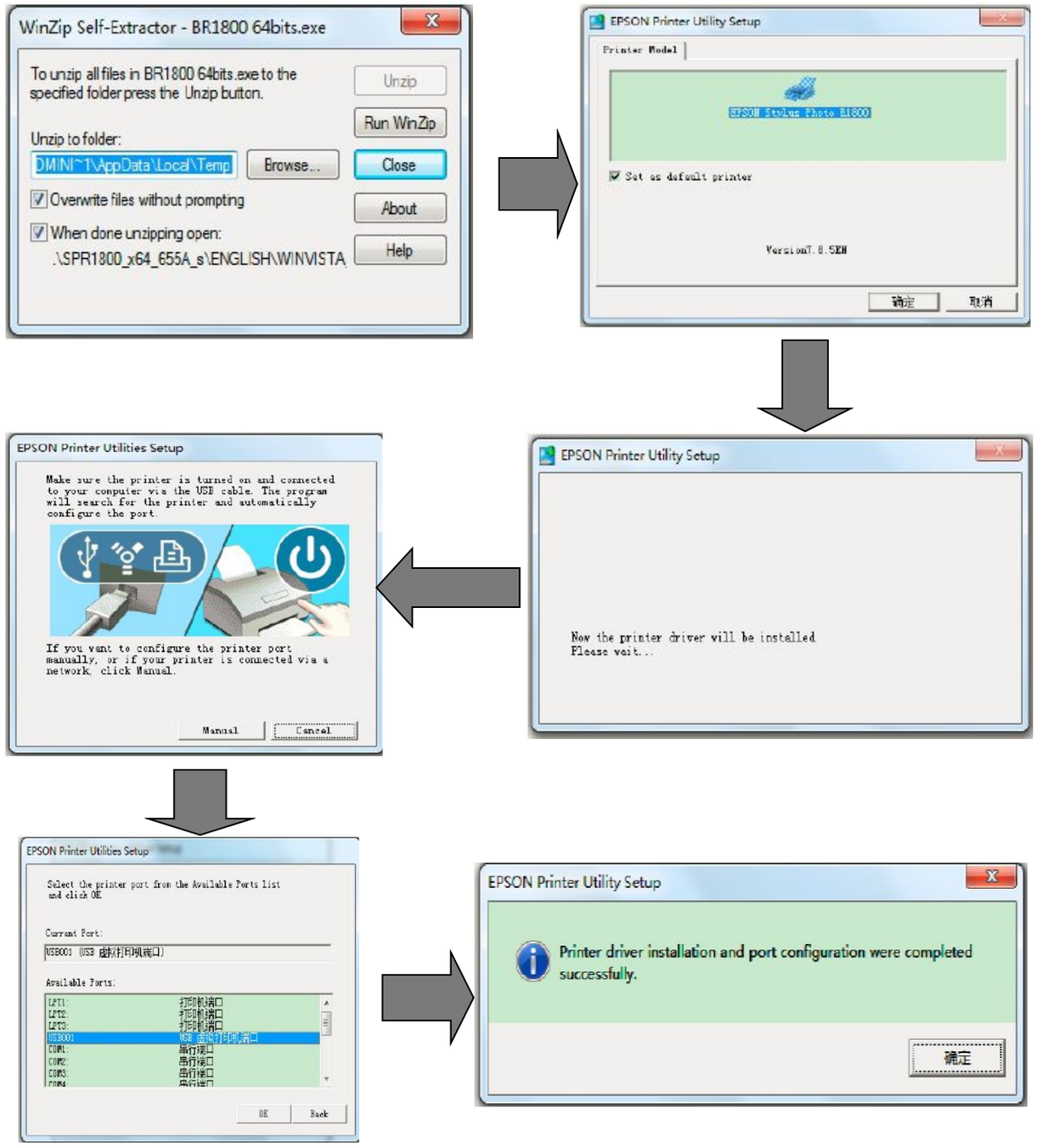
B**enefits to check**: To check voltage and ground wire will help us get a stable and steady power condition. It will be benefitial for safty
installation.



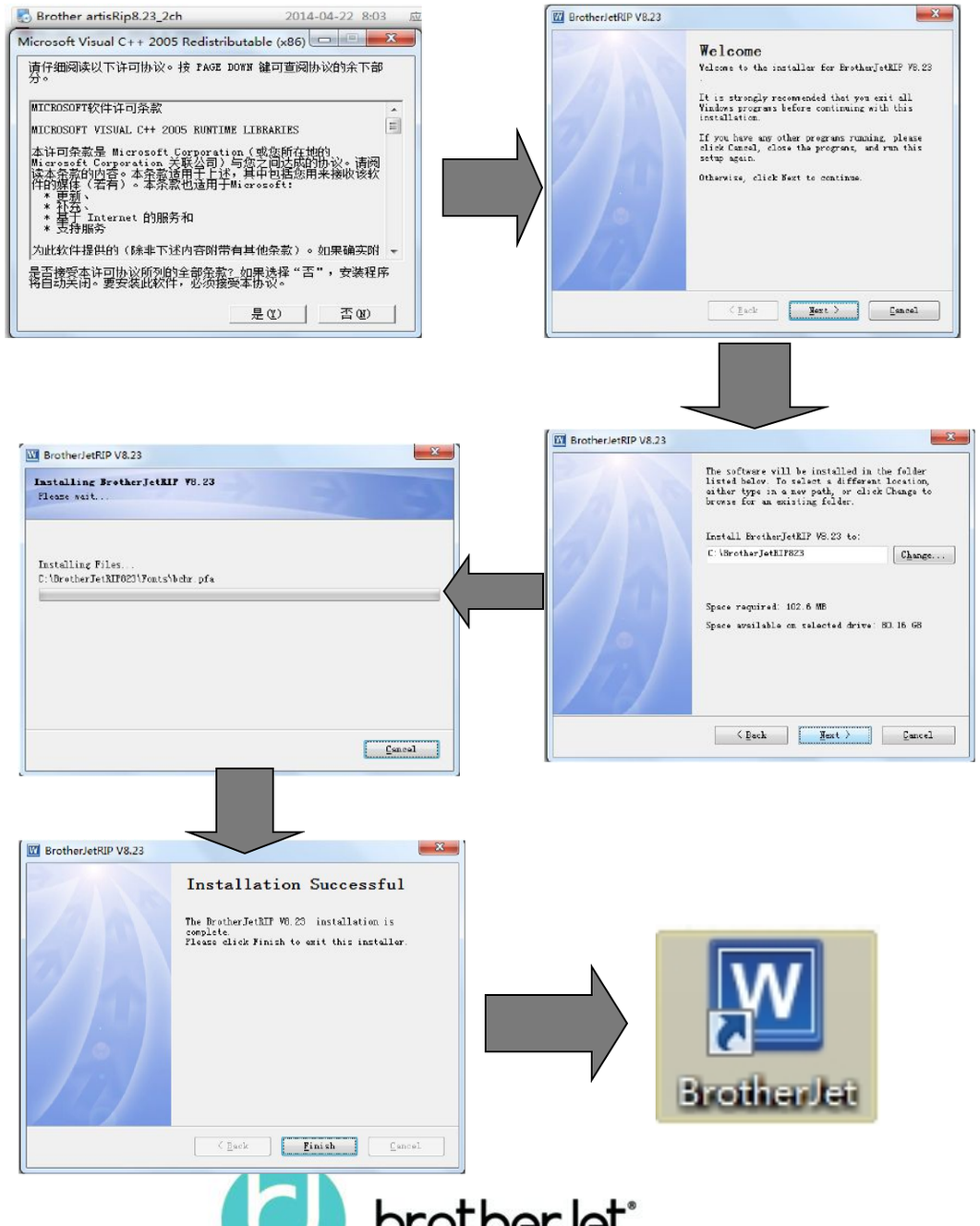
Ground wire

2.2 DRIVER AND RIP SOFTWARE INSTALLATION

2.2.1 Driver Installation

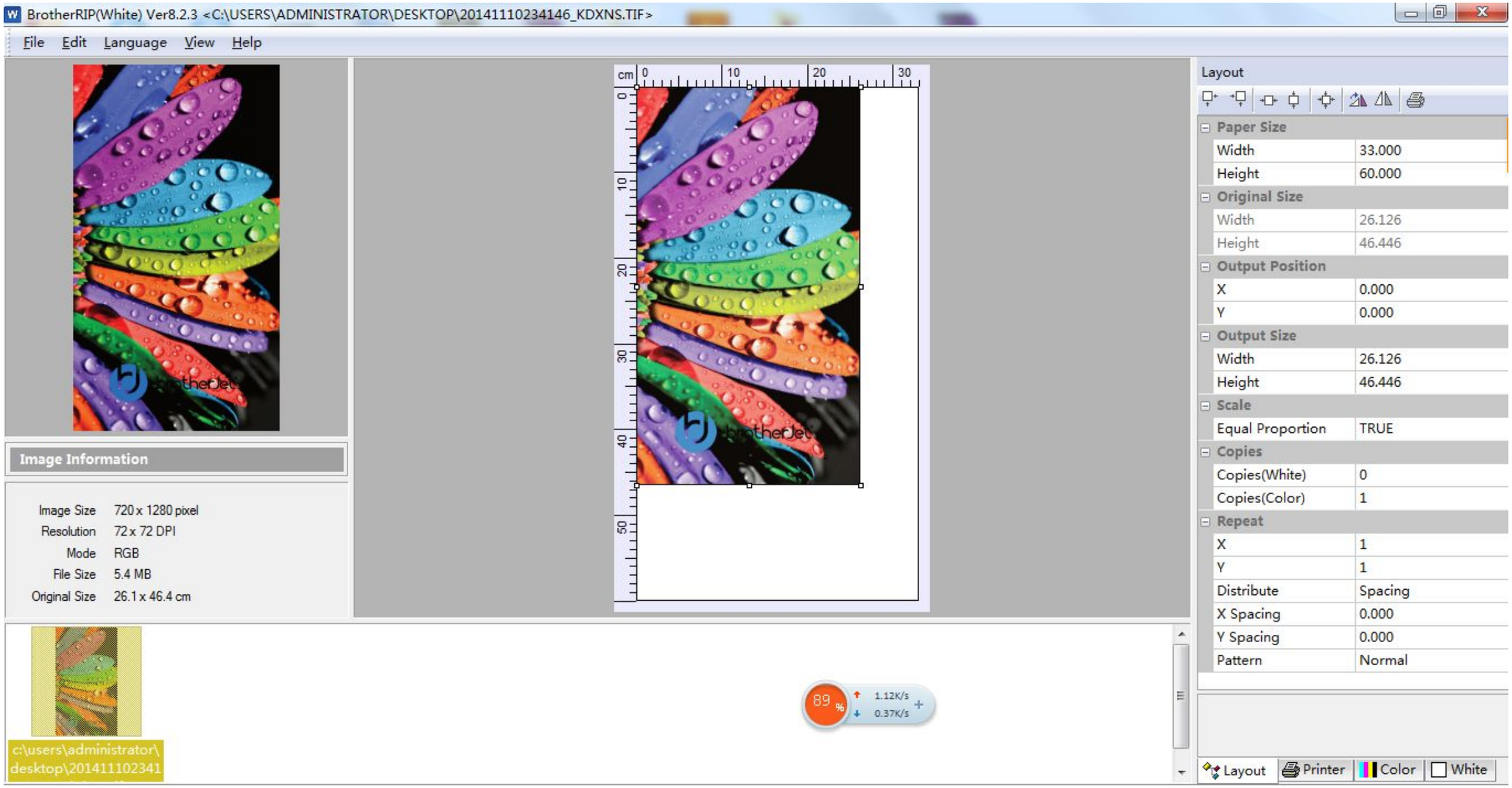


2.2.2 BR Software Installation



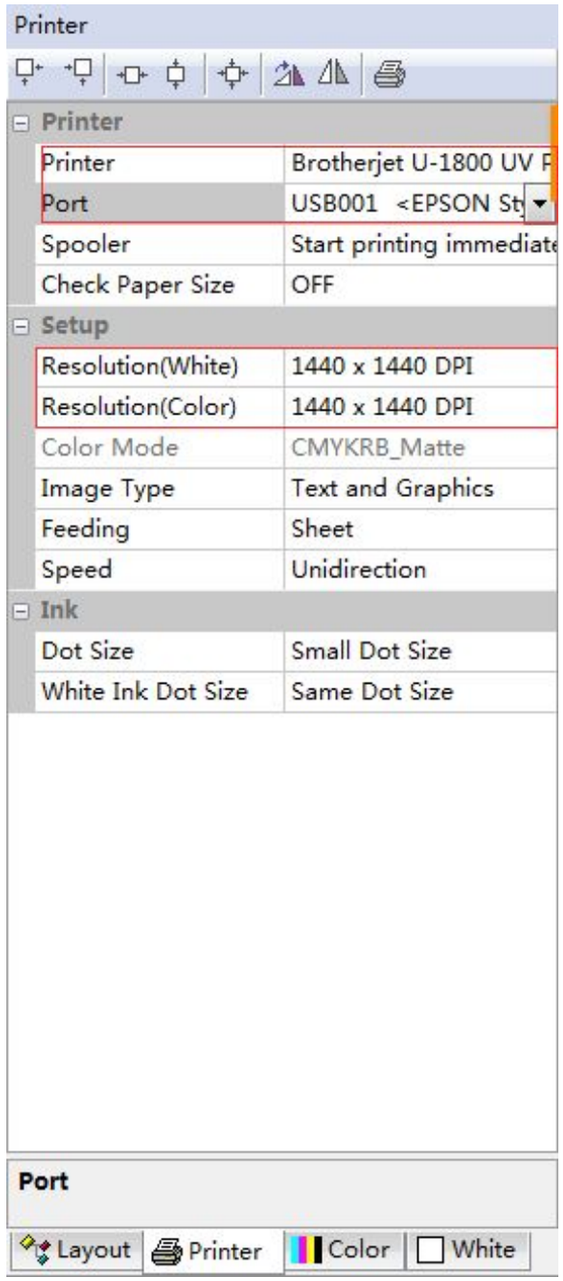
2.3 RIP SOFTWARE INTRODUCTION

2.3.1 Layout Settings

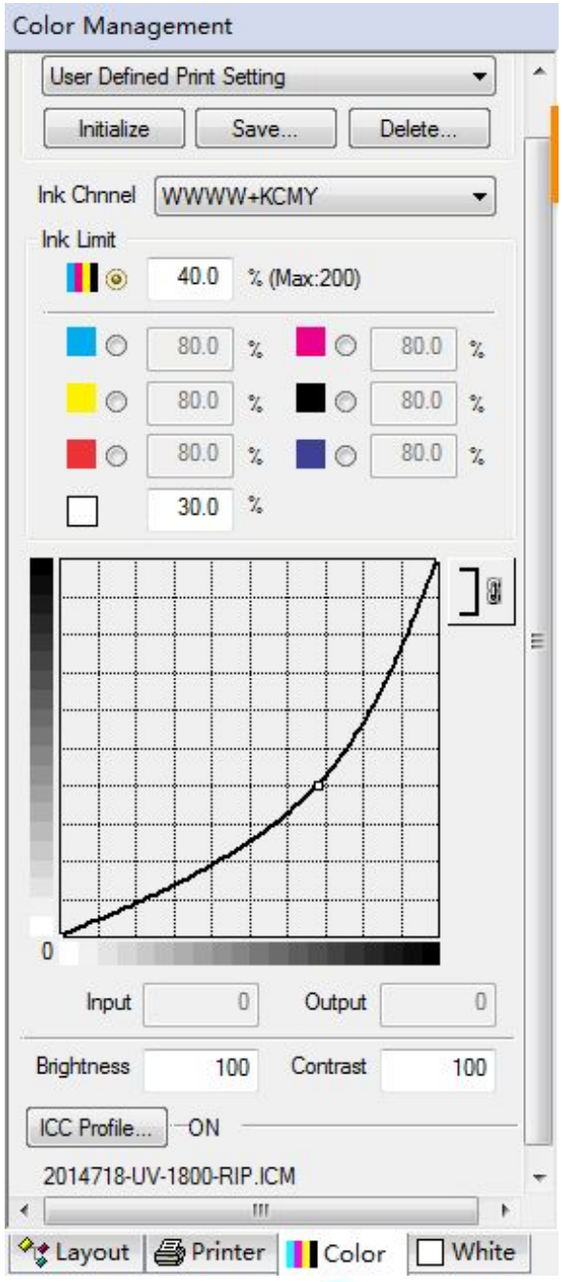


2.3 RIP SOFTWARE INTRODUCTION

2.3.2 Printer Settings

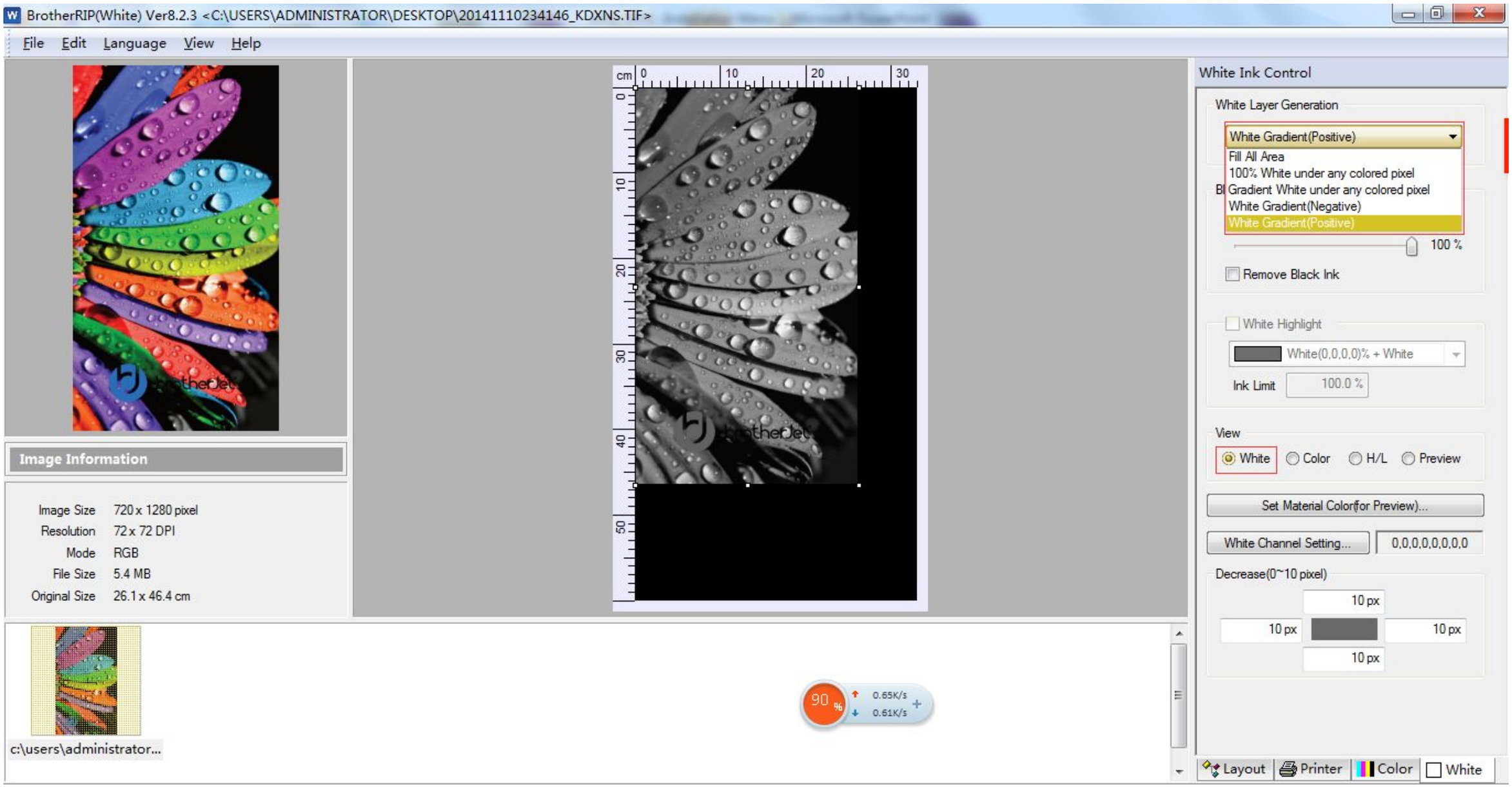


2.3.3 Color Settings



2.3 RIP SOFTWARE INTRODUCTION

2.3.4 White Settings



2.4 MACHINE MECHANIC SYSTEM CHECKING

Let's turn it on without any ink to see if the machine is ready to work for us!

1.Connect the power cable. Make sure it is your standard 220V or 110V.

2.Turn on the GENERAL POWER button.

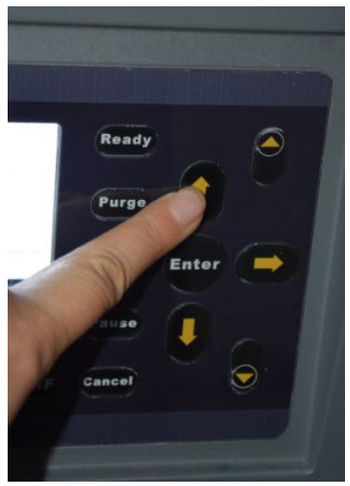
3.Press the UP/DOWN/FORE/BACK buttons now to see the moving table.

4.Press DOWN button. Until it comes down to about 3cm.

5.Now press the POWER button for the printing engine. The printing system will start its initialization.. The POWER light will be flashing....The head will move from the right to the left ,left to the right. And then the head will stop moving any more and the POWER light should be SOLID ON.









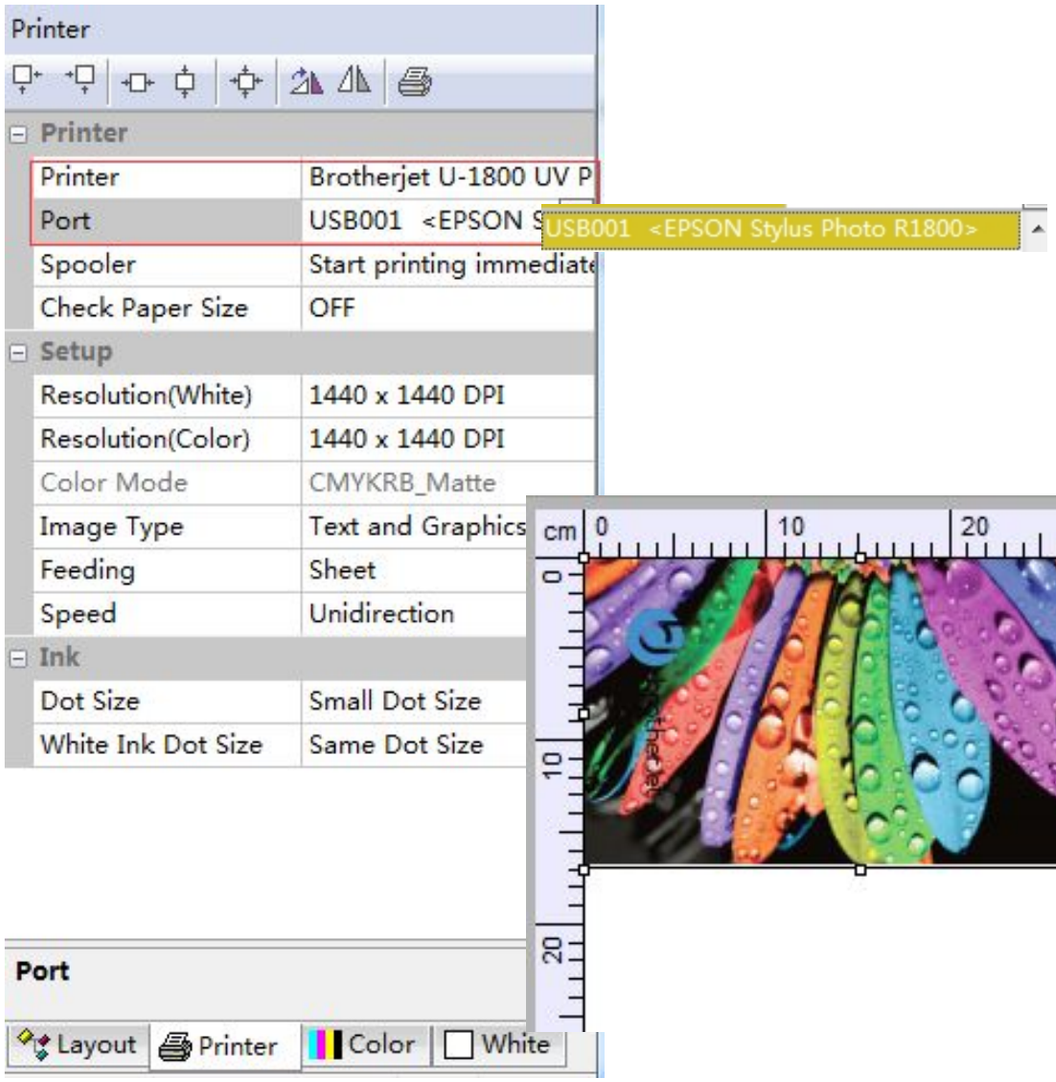
2.5 MACHINE TESTING PRINTING BEFORE FILLING INKS

After checking mechanic system， We could test print without inks. This will help us exhaust the EPSON protection fluids and test the printer at the same time.

Connect the printer and pc with USB line

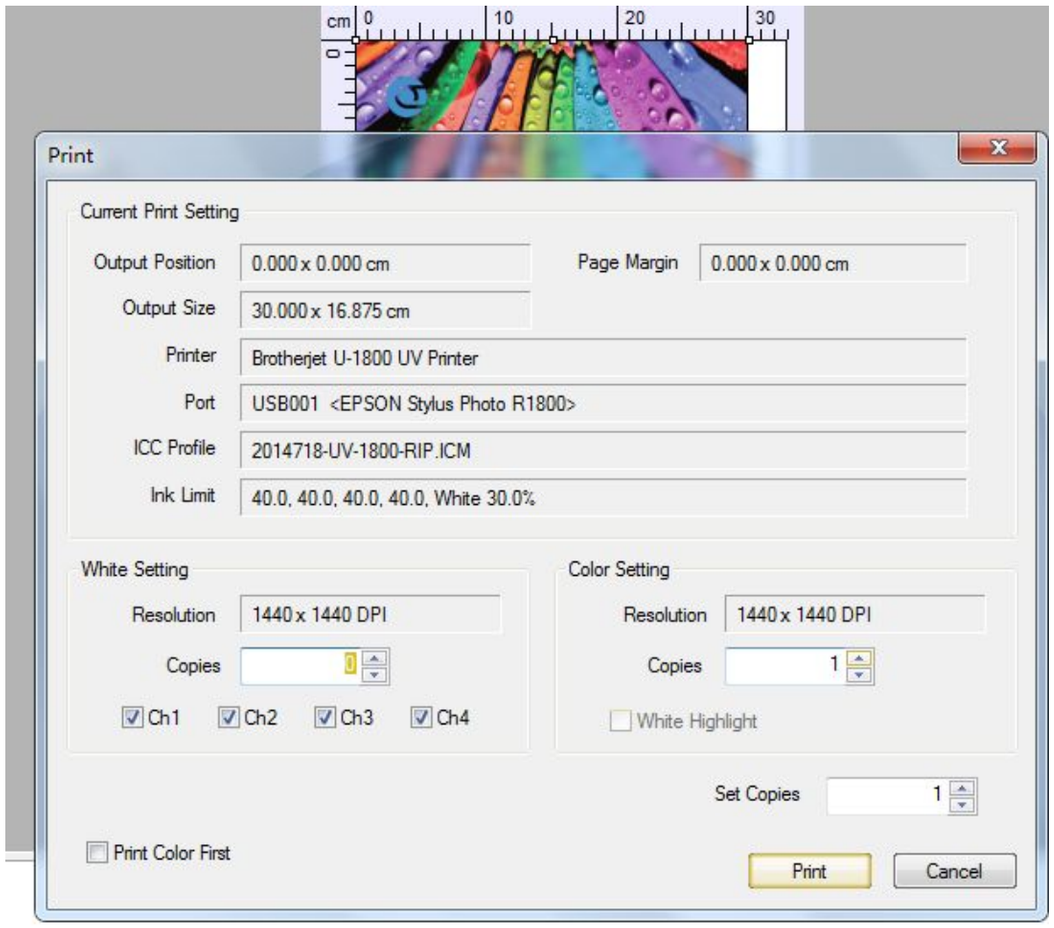
1, Exhaust EPSON protection fluids out of nozzles.

We could achieve this by printing a picture for **EIGHT** copies.



2, Test the printing system.

The former process is achieving this simultaneously.We could check if the printer will excute the normal printing movement and command



2.6 INKS FILLING & INK FOLLOWING

Ink filling and following process is very critical for printing.

1) we have to fill inks into ink bottles by funnels. And we keep filling 2/3 level of inks into the bottles.



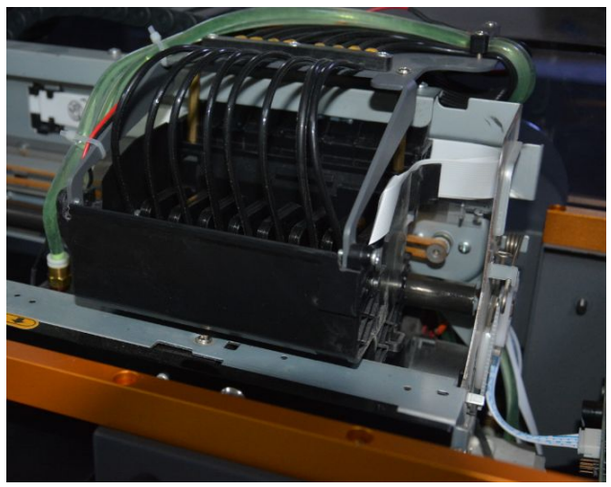




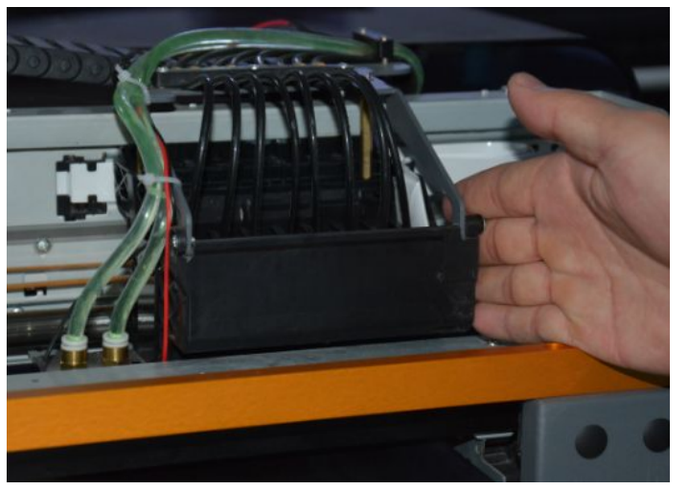
2) we have to excute ink following after filling. Ink following process concludes: damper sucking, waste ink sucking, auto cleaning.



Press Pause button for once



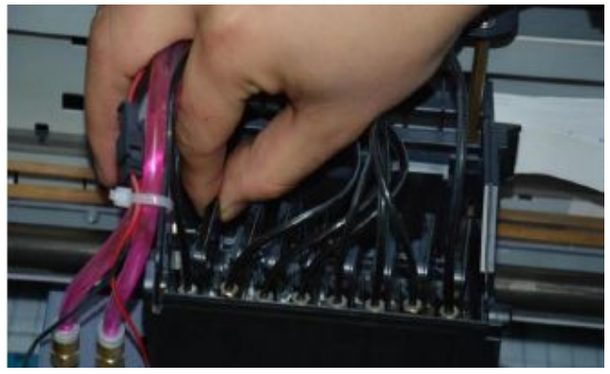
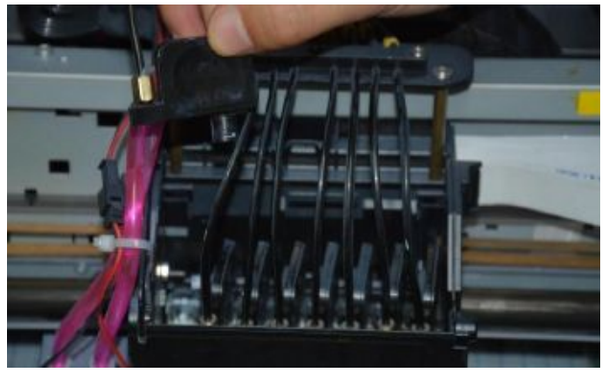
Carriage moves out of home position



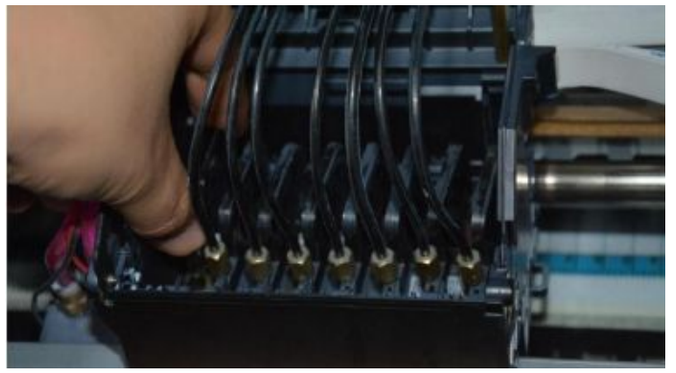
Move carriage to middle by hand

Product Installation

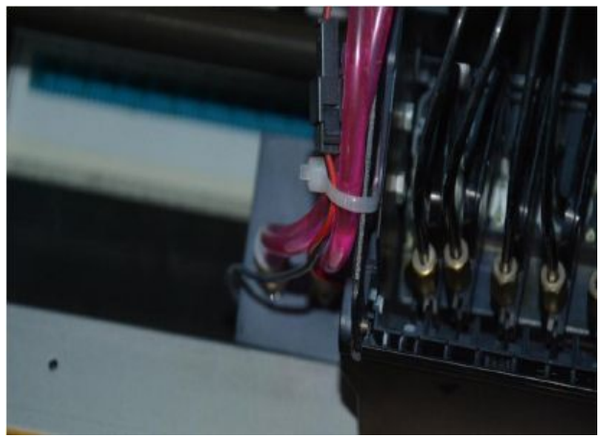
3) **Damper sucking :** we have to take out ink dampers and use Syringe to suck inks out. And we have to put back dampers when we get inks.

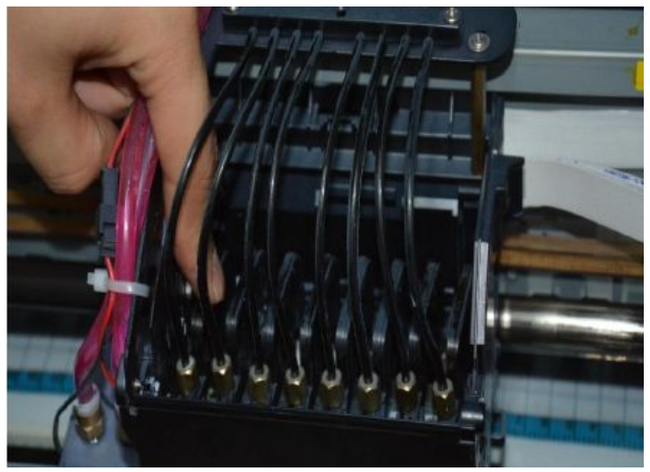




4) **Put back dampersafter sucking**: we have to excute ink following after filling. Ink following process concludes: damper sucking, waste ink sucking, auto cleaning. Now we have to put back ink dampers.



put damper into the dmaper holders



press down damper and tighten them



press pause button for once again to lock carriage

5) Wasteink sucking



Take out the waste ink tube

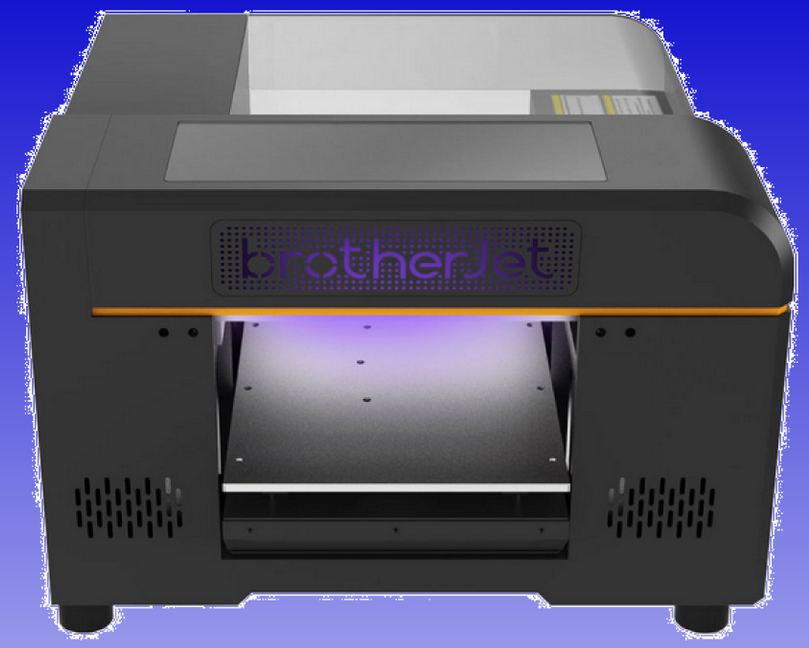


Connect the syringe with waste ink tube



Suck waste inks with syringe

CHAPTER 3



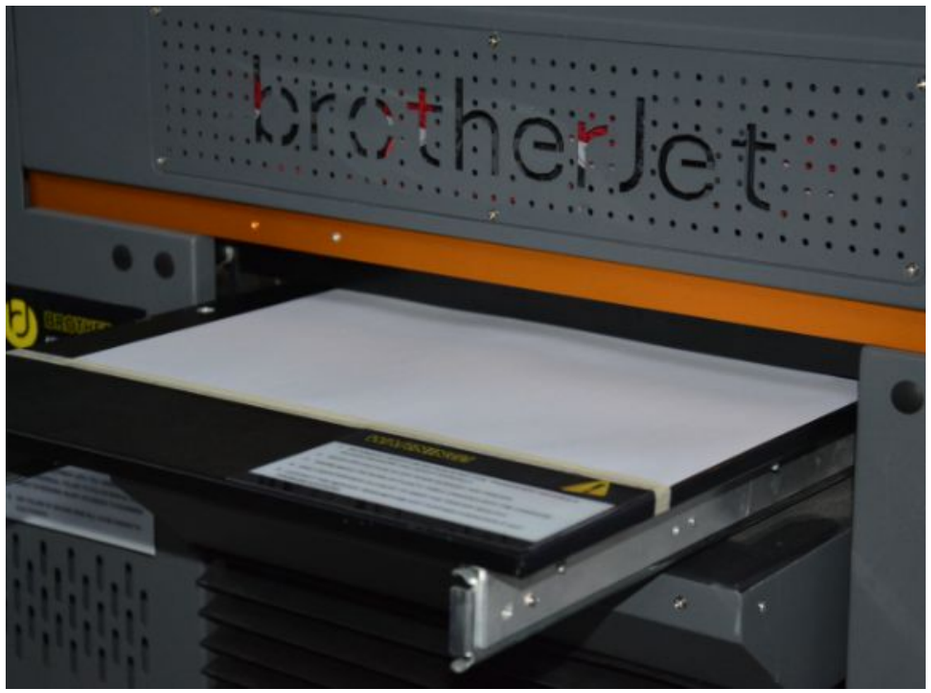
PRODUCT PRINTING

BR-Artis U3000 Printer

3.1 NOZZLE CHECK

3.1.1 Paper Placing

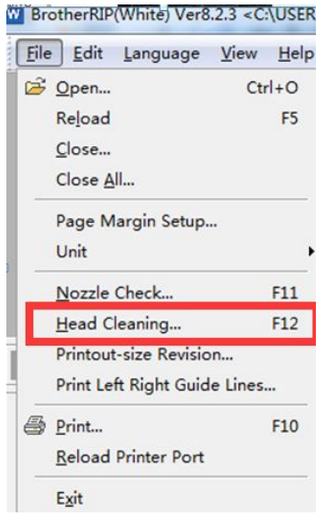
Put the A4 paper on working table and fix it with glue tape in 100% flat level.



Automatically adjust the height , and the working table return.

3.1.2 Head Cleaning

Before Nozzle Check, we must make head cleaning for 2-3 times , then make nozzle checking.



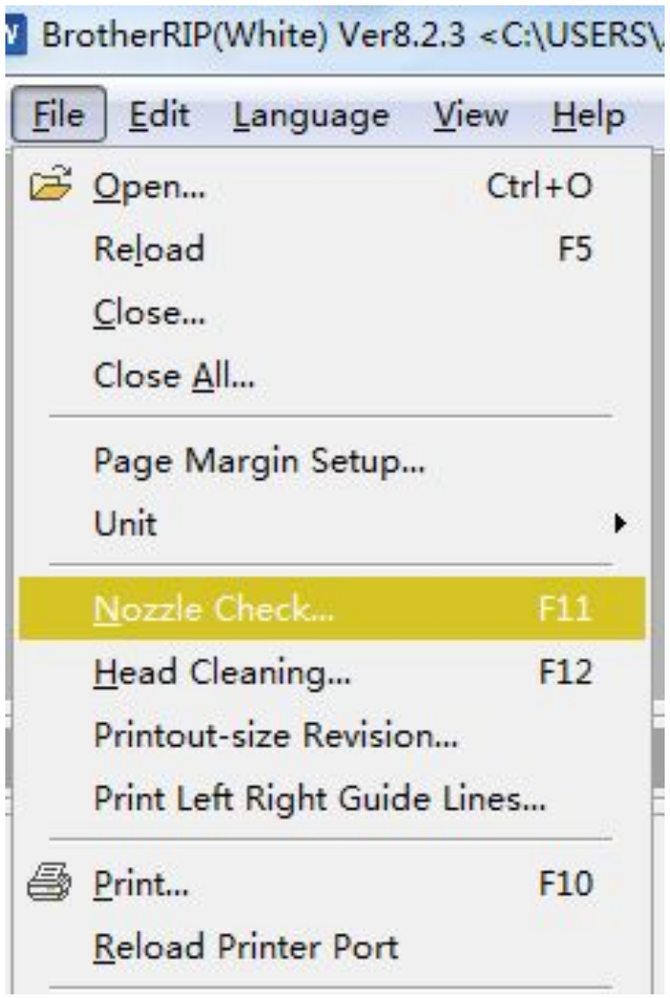
One way

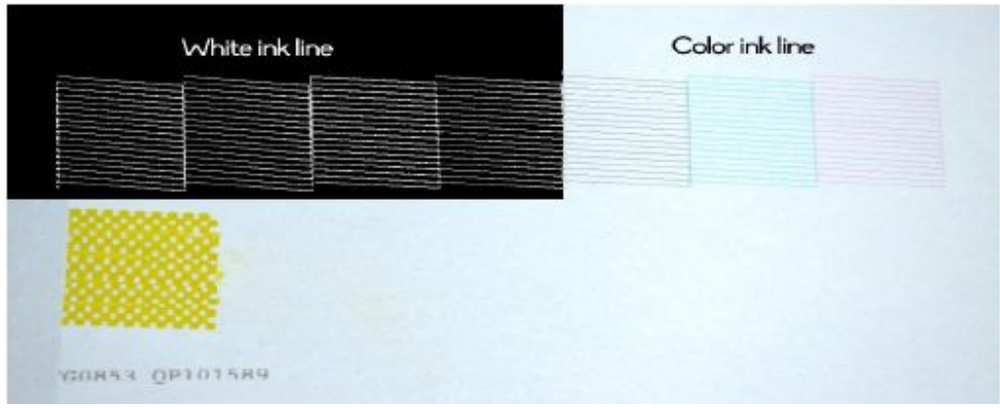


Second way

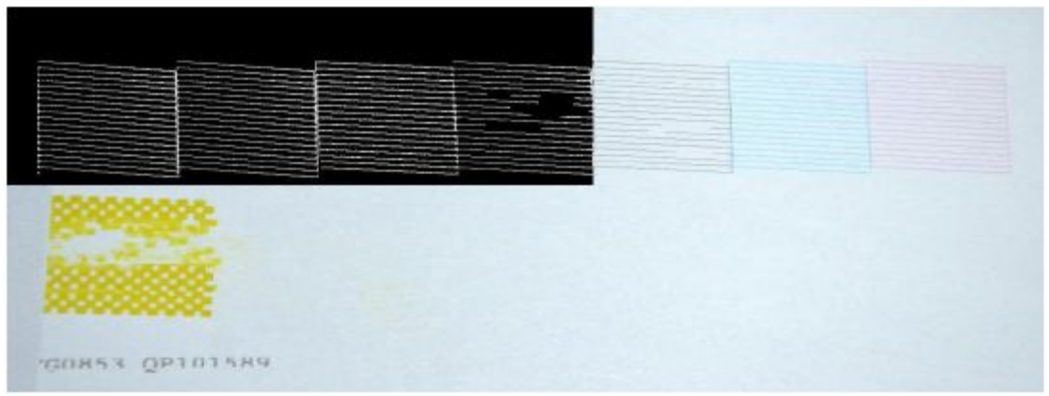
3.1.3 Nozzle Checking

Continue to the next step only when the nozzle check is as left chart below.





The complete nozzle checking printing, and it can continue



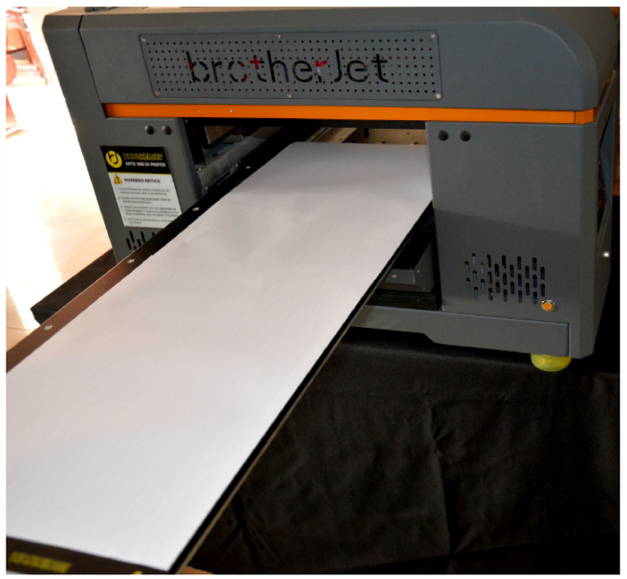
The nozzle checking is incomplet, (above picture),pls do not continue

Notice: The purpose of nozzle checking and head cleaning is to check all color ink can print
well and keep the ink system work well. So please make nozzle before printing everyday.

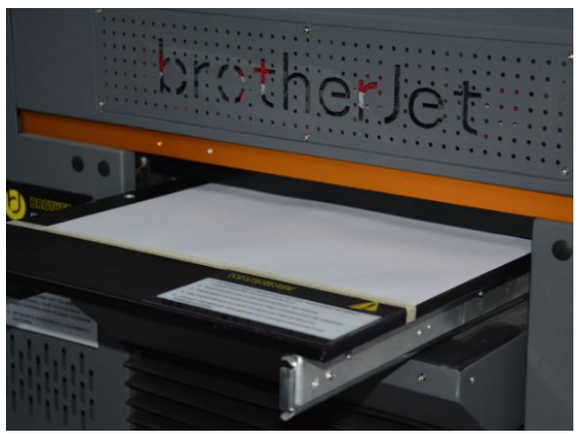
3.2 Scale(Ruler) Printing

3.2.1 Paper Placing

Put the white paper on working table and fix it with glue tape in 100% flat level.

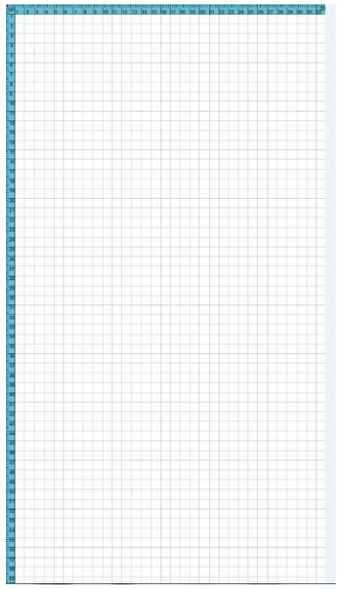


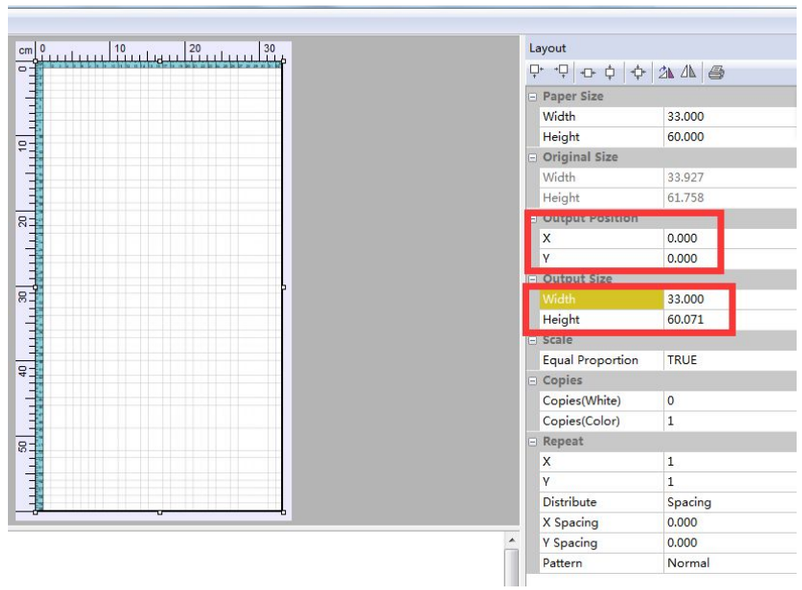
3.2.2 Heighth Adjusting

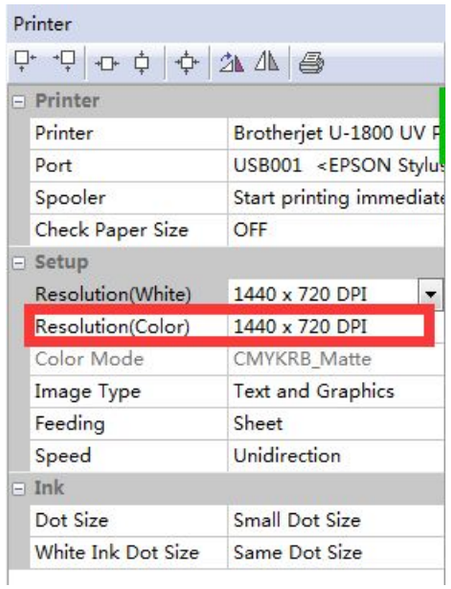


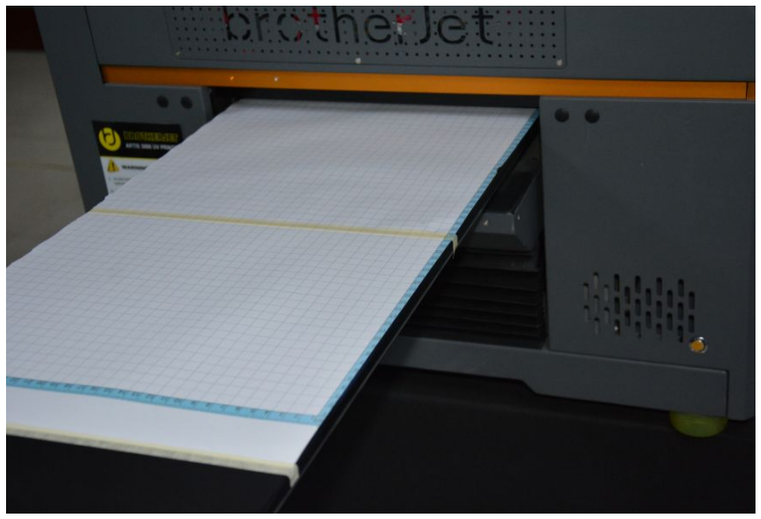
Automatically adjust the height , and the working table return.

3.2.3 Scale(Ruler) Printing







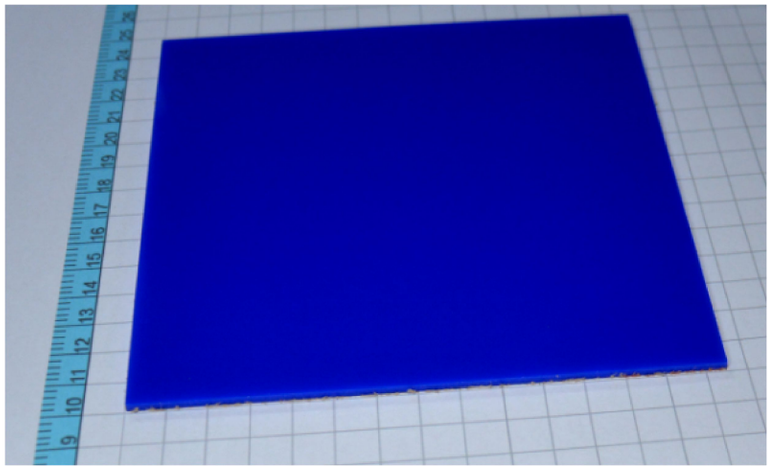


3.3 Material Printing(eg. Acrylic Board)

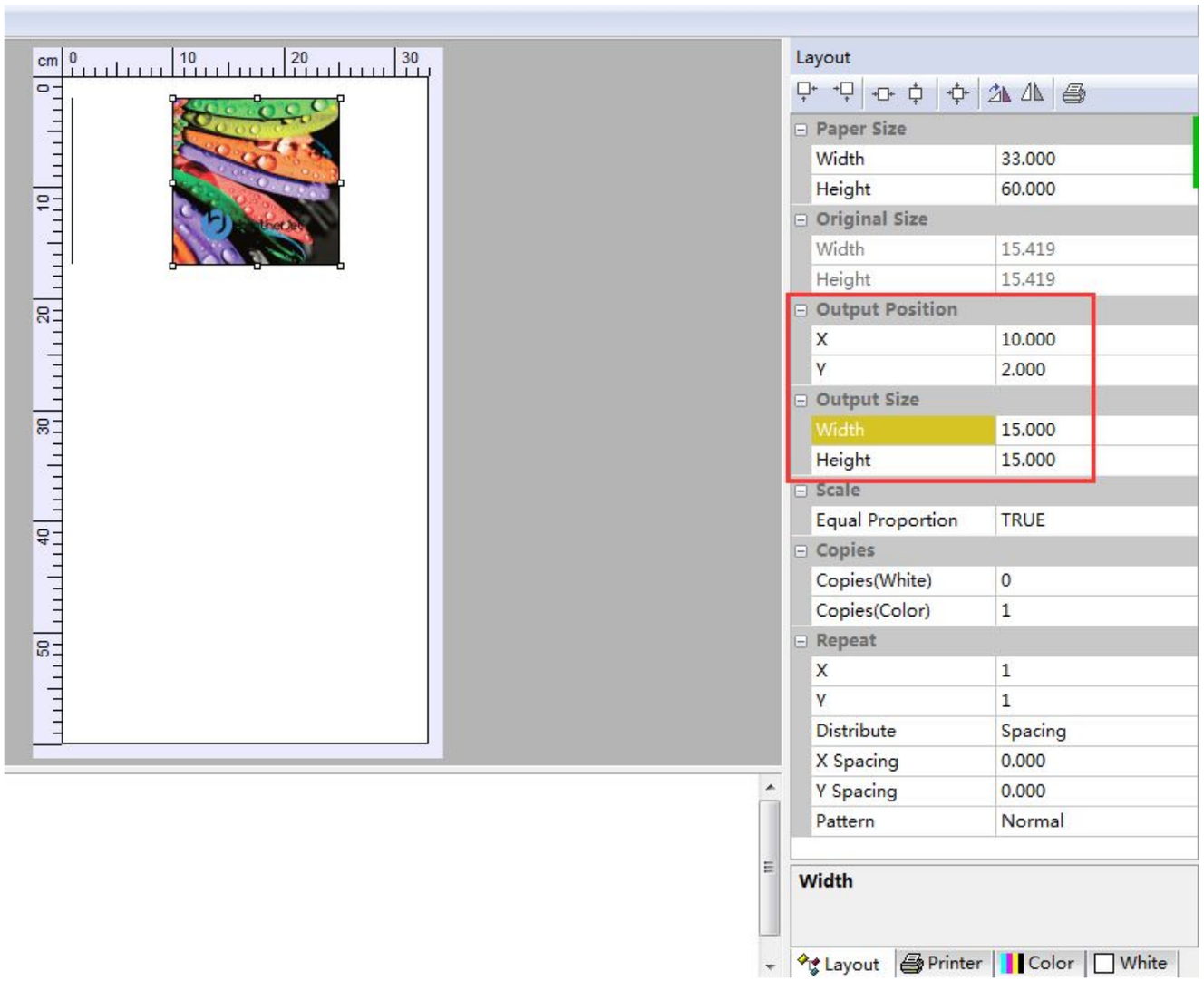
3.3.1 Select the Artwork



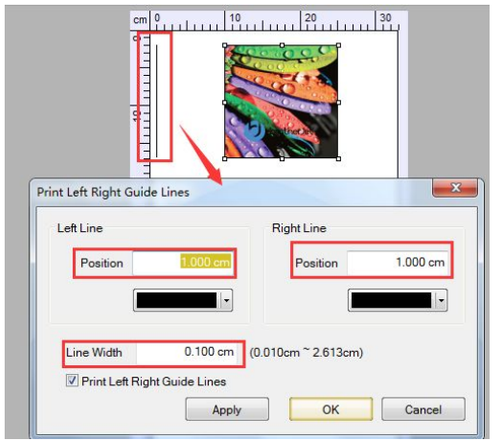
3.3.2 Material Placing on Flatbed

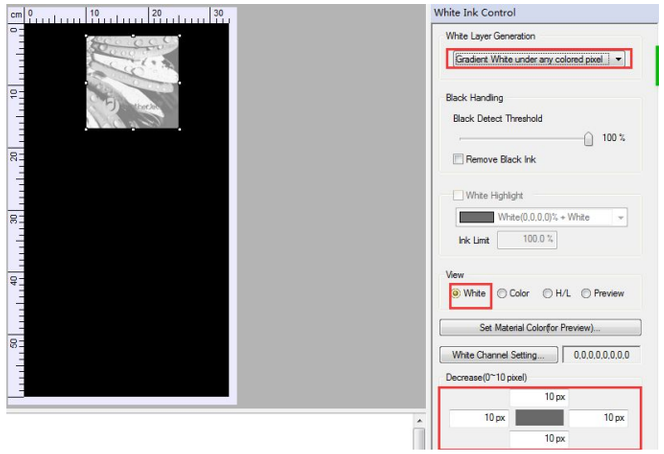


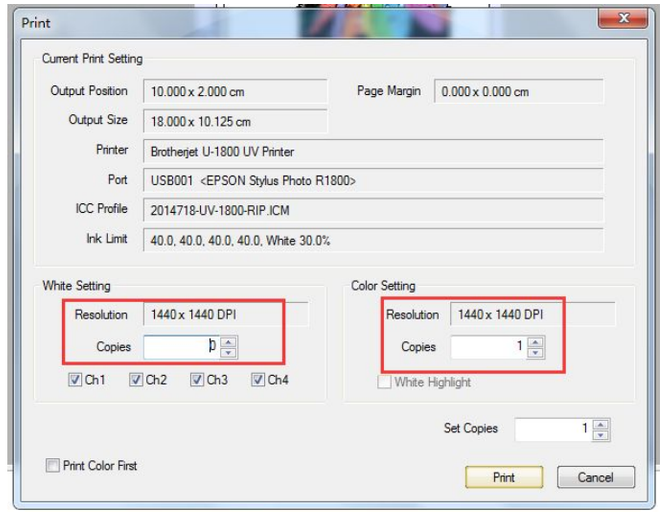
3.3.3 BR Software Setting and Printing

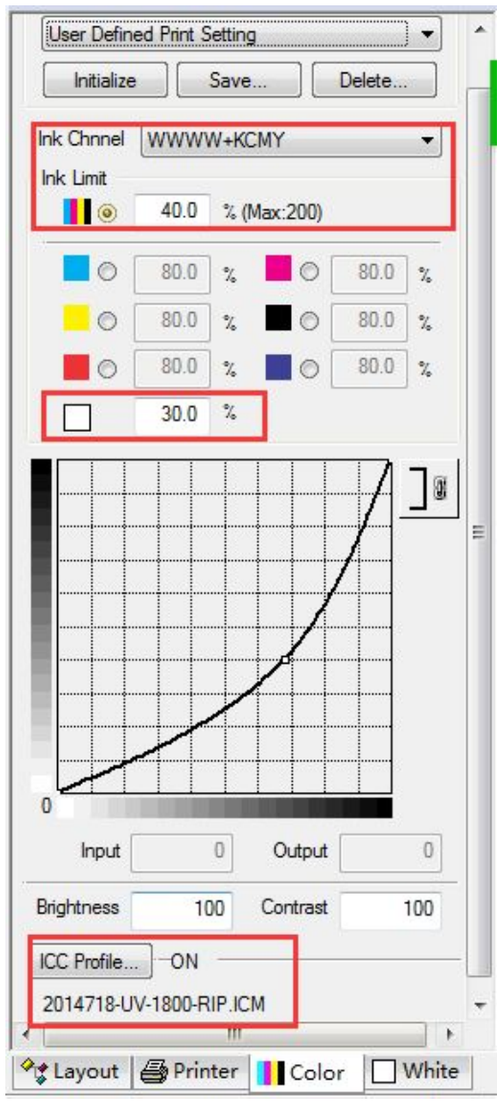


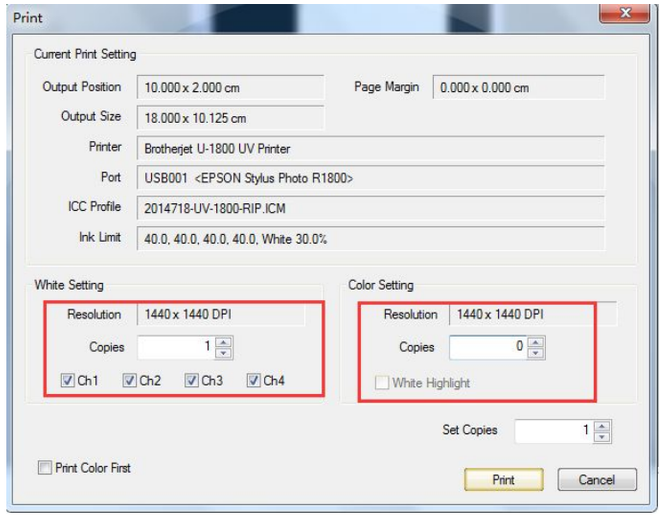
Product Printing

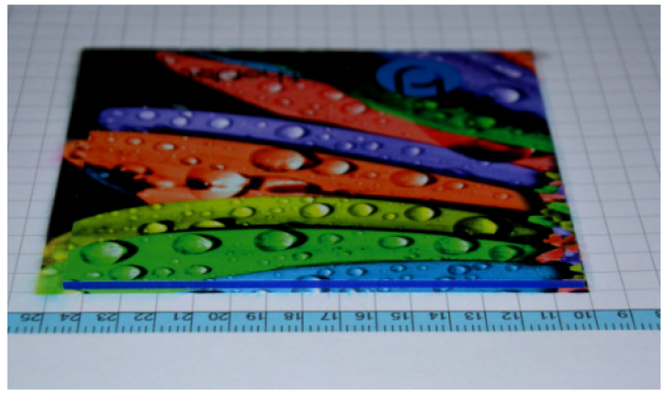


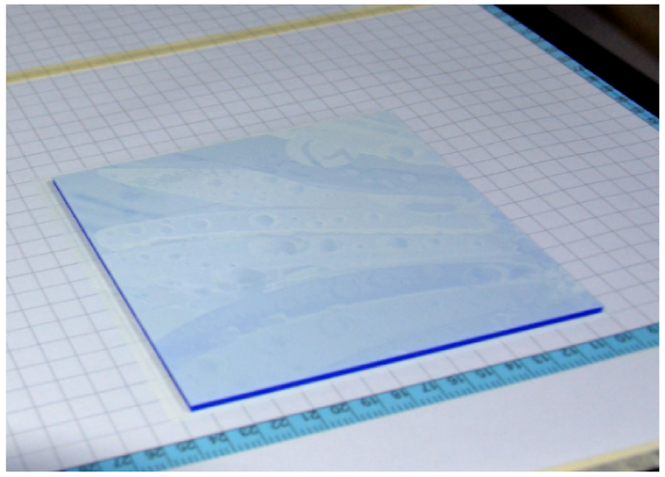














THE END !

THANKS FOR ATTENTION ON
BR-Artis U3000 Printer Service Manual !

Need assistance? We are here to help. To inquire about products and Technical services, please contact us. With manufacturing and official working places located in Beijing, Guangdong, China and also offices/agents in Turkey and US, you can visit us any time or see the working equipments easily for demo, we are here ready to support.

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