

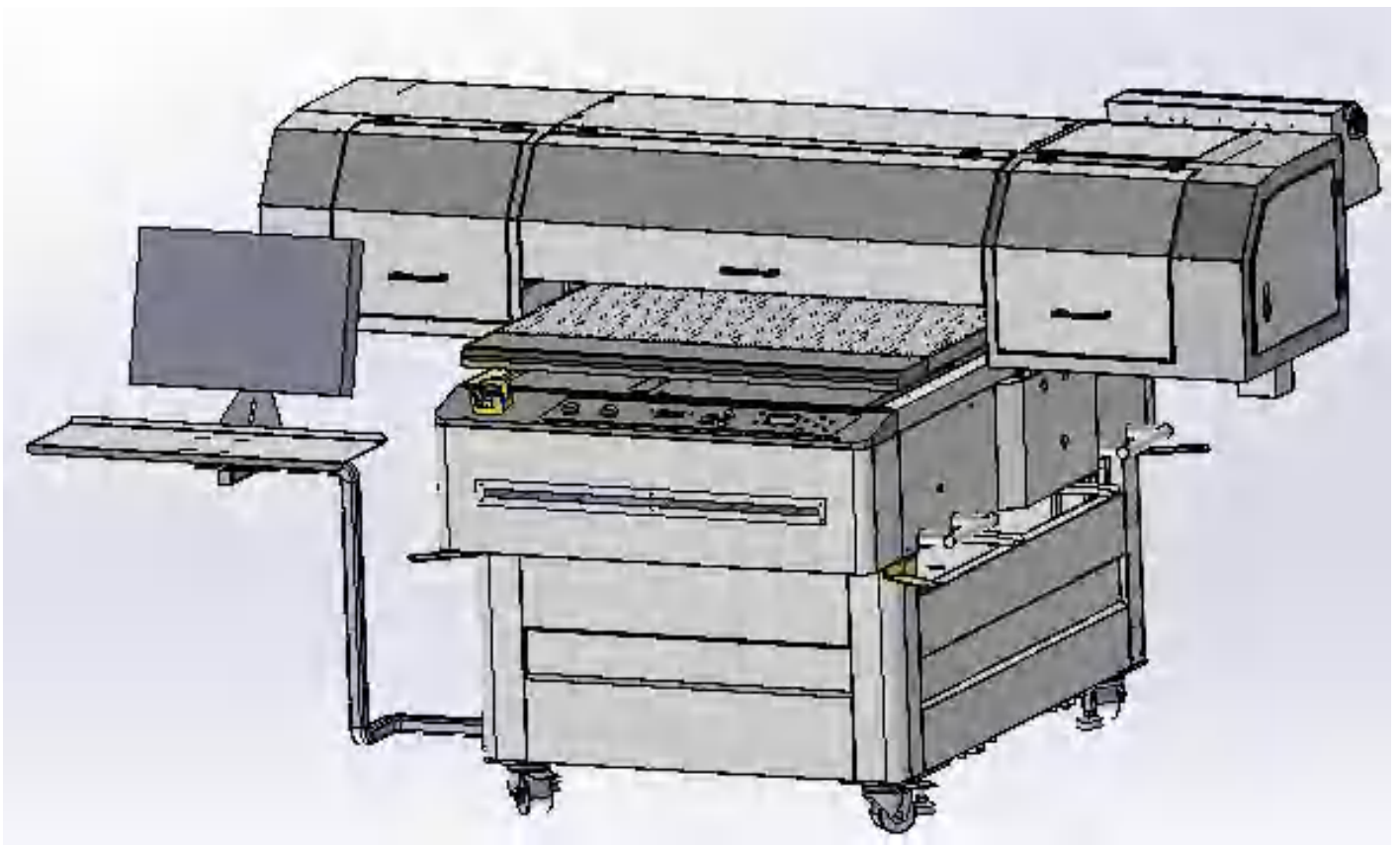
9060G UV flatbed printer

National Service Hotline: 400-617-9998

Henan United Color Co., Ltd.

9060G UV flatbed printer

Equipment Instructions



☞ Please read this instruction carefully before use and keep it properly.

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Preface

- Thank you very much for choosing to purchase our printer.
- To ensure that you fully understand the performance of this product and its correct and safe use, please be sure to read this instruction manual thoroughly and keep it properly.
- The contents of this manual and product parameters are subject to change without prior notice. If you have any questions about the product, please consult relevant technicians.
- We have tried our best to edit this description and test this product. If you find any errors, please let us know. We will be very grateful.
- To ensure safe and correct use of this product, please read this manual carefully before use.
- Please keep it in a safe place and refer to it when necessary.
- Keep this product out of reach of children or non-professionals.

Description of usage conventions

- To ensure safe and correct use of this product to avoid personal injury and property damage, make sure you fully understand the differences between the following categories before reading the instructions.
- **WARNING** If such precautions are ignored, operator injury could result.
- **CAUTION** Ignoring this precautionary information could result in operator injury or equipment damage.

Safety Guide

Please read the following instructions before using this product.

Printer Installation Notes



WARNING

- Do not install or use the printer near volatile solvents (alcohol or thinners). Do not place anything on top of the product.



CAUTION

- Do not place this product in a tilted or vibrating place.
- Placing it in this way may cause the device to tip over or be damaged.
- Avoid using this product in the following places
 - Excessively humid or dry places
 - Places exposed to direct sunlight
 - High temperature places
 - Places near open flames or moisture
- The suitable environment for this product is: temperature 20°C-30°C, humidity 40%-60%.

Power supply safety precautions



WARNING

- If the power cord is damaged, please disconnect the power as soon as possible and repair it yourself.
 - Be careful that there may be leakage at the damaged part, which may cause fire or short circuit.
 - Do not use wet hands to plug in or unplug the power cord to avoid electric shock or short circuit.
-

Avoid using the same power socket for multiple devices

- This may cause a short circuit or even a fire.
-

Do not bundle or twist the power cord.

- This may cause a short circuit or even a fire.
-

- When installing the ground wire, special attention should be paid.
 - Appropriate ground wire locations: the power supply terminal and the ground pile terminal.
 - It is forbidden to install ground wires on water pipes, gas pipes, telephone lines, lightning conductors, etc.
-

Operational safety precautions



WARNING

- Do not attempt to disassemble or repair the device yourself.
- If the device makes noise, produces smoke or flames, or has an unpleasant odor, turn off the power immediately and contact the manufacturer from which you purchased the device.
- Do not use flammable objects or products around the device.
- Before moving the device, unplug the power supply.
- When moving the device, make sure the print head is in the starting position.

Maintenance and inspection



WARNING

- Before cleaning, make sure the power is off and the power cord is unplugged.
- Use a cloth moistened with cleaning fluid to clean the printer. Do not use volatile solvents from an alcohol lamp to clean the printer.

Precautions and handling of consumables such as ink cartridges



WARNING

- Do not use any ink outside the specified range, otherwise it will affect the print quality.
- Do not use expired ink, which may cause equipment failure.
- The disposal of waste ink needs to comply with relevant laws and regulations.
- Be careful not to let the ink contact your skin or clothing.
- Check the waste ink bottle regularly to avoid overflow.
- The ink needs to be stored in a cool place, not in high temperature or direct sunlight.

Chapter 1 Equipment Parameters

1. Product technical parameters

Equipment type: UV flatbed machine

Equipment model: 9060WZ

Number of printheads: three

Type of printhead: I3200U1

Ink type: UV

Print width: 90cm*60cm

Print height: 15cm

Supported printing solutions: white color/white color varnish/one white and two colors

White color varnish printing mode:

6PASS: 7M²/H (production mode)

8PASS: 4M²/H (precision mode)

Configuration standard:

- Hiwin silent rails
- High-precision vacuum adsorption platform
- Infrared automatic lifting platform
- Large-capacity ink supply system
- Intelligent control panel
- Inkjet technology: piezoelectric inkjet
- Ink type: Environmentally friendly, colorful, and highly durable UV ink for outdoor use
- Color configuration: 6 colors; C+M+Y+K+(W)+(V)
- RIP software configuration: PHOTOPRINT control software (dedicated)
- Color control: International standard ICC color control, user-adjustable curves and density, etc.

File formats: TIFF, JPEG, Postscript, EPS, PDF, etc.

Print Media:

Hard media: glass, tiles, ceilings, aluminum plates, wood boards, door panels, signs, acrylic plates, KT plates, plexiglass plates, chevron plates, corrugated cardboard, etc.

Flexible media: wallpaper, reflective film, canvas, carpet, leather, paper, etc.

Equipment size parameters

- Printer size: 1885mm x 1270mm x 700mm
- Package size: 2000mm x 1380mm x 905mm
- Operating voltage: AC220V
- Equipment power: 1.2KW
- Equipment weight: 190KG

Work Environment

Temperature: 20°C--30° C
Relative humidity: 40%--60%

Chapter 2 Installation Guide

2.1 Computer configuration preparation



Desktop PC configuration requirements

★1.PC Recommended Configuration:

- System: WIN7 64-bit/WIN10 64-bit
- CPU: i5 or above
- Network card: must use Gigabit or above network card (network card is also called Gigabit Ethernet network card, which is a network card that can adapt from 10M/100M/1000M according to the network speed, and the maximum transmission speed can reach 1000Mbit per second. Gigabit Ethernet network card is mostly used in servers to provide high-speed connection between servers and switches, and improve the response speed of network backbone system.)
- Memory: 8G or above.



Laptop configuration requirements

★2.PC Recommended Configuration:

- System: WIN7 64-bit/WIN10 64-bit
- CPU: i5 or above
- Network card: You must use a Gigabit or higher network card (a network card is also called a Gigabit Ethernet network card, which is an adaptive network card from 10M/100M/1000M according to the network speed, and the maximum transmission speed can reach 1000Mbit per second. Gigabit Ethernet network cards are mostly used in servers to provide high-speed connections between servers and switches, and improve the response speed of the network backbone system.)
- Memory: 8 GB or above

2.2 Power-on self-test

2.2.1 Choosing the right power supply

● Power supply voltage requirements

2.2.1.1 Depending on the country and region, you can choose:

Printer power supply: AC 220V 50Hz , Computer Power: Select the power requirements that match your computer and monitor

- For the equipment, the ground wire must be connected properly. (It is recommended to connect a separate ground wire to the ground terminal of the machine)
- To ensure stable power supply, it is best to configure an online UPS voltage-stabilized power supply.
- The machine power supply needs to be wired separately from the drying power supply.
- Without power on, observe whether the left side of the machine trolley is tilted against the table, turn on the power to check the reset status, and add pure water or coolant to the UV light box.
- Turn on the machine and print a blank picture to test whether the function is normal. Then add ink and install the print head.

2.3 Equipment installation steps

2.3.1 Machine Observation

- 1.8 MM) between the machine platform and the bottom of the trolley frame , whether the positions of the grating and the grating decoder are deviated , whether the positions of the trolley origin limiter and the limit plate will not cause collision , whether there are creases or dead bends on the ink tube behind the ink cartridge , and whether the fan and water tank wiring are correct.
- Use a multimeter to measure the power supply. If the power supply voltage exceeds 220V±10V, a 3000-5000VA voltage regulator must be used. The equipment needs to be grounded , and the voltage between the power supply neutral line and the machine housing should be measured to ensure that the voltage between them is less than 5V .
- Check the accessories box to see if the main accessories are complete and inject any one of distilled water, purified water, or refrigerant into the UV lamp water tank.

2.3.2 Machine Operation

- First remove the fixing screws of the crossbeam, and then power on to see if the machine resets normally. Adjust the ink station origin, scraper printhead position, scraper blade height, and sealing printhead height.
- Add ink, ink sac and printhead, use a syringe to draw ink from the ink sac to add ink manually, and insert the ink sac.
- Plug the printhead cable into the carriage board, turn on the machine to manually draw ink, automatically clean, print the printhead test, and observe the printhead status.

2.3.3 Machine debugging

- the printhead mechanical verticality , head horizontal spacing calibration, step calibration, printhead verticality, and UV lamp in the control center .
- Calibration and debugging: stepper calibration, printhead mechanical vertical calibration, white varnish printhead vertical calibration, printhead horizontal calibration, bidirectional calibration.
- Print online to see if the machine's car pauses at the left and right ends. If so, replace the operating system with a pure version of Windows 7 64- bit, or replace the independent network card.



CAUTION

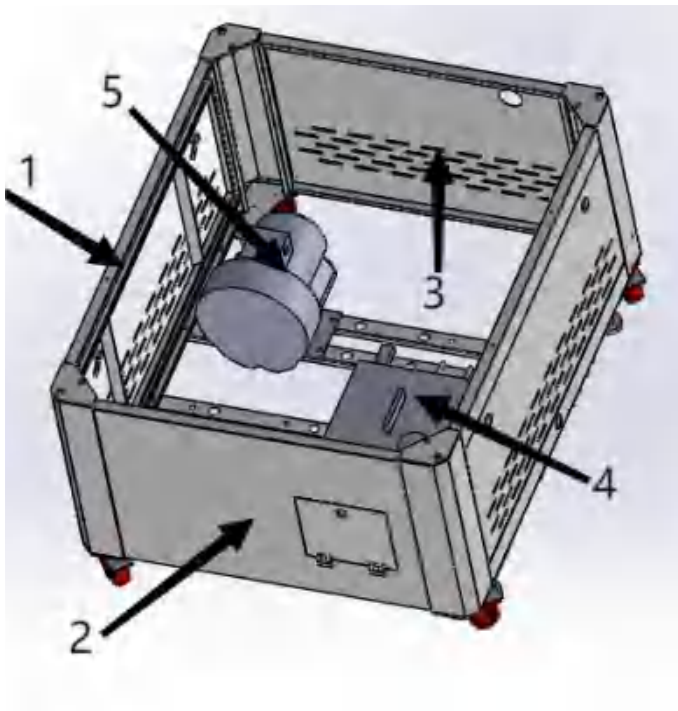
- Please select the power supply marked on the printer to avoid damage to the device due to using a power supply that does not meet the requirements.
Before connecting the power supply, please carefully clean and check the internal packaging foam paper, tape and the clips that fix the printhead, etc.
Connect the power cord
Power on device self-test
- Note: Before starting the machine, it is recommended that the user manually pull the carriage to the left and right once with full stroke to ensure that there is no foreign matter on the printing platform interfering with the printhead base plate, and to ensure that the pipes on the carriage frame do not

interfere with the printer housing in any way.

Chapter 3 Equipment Hardware Description

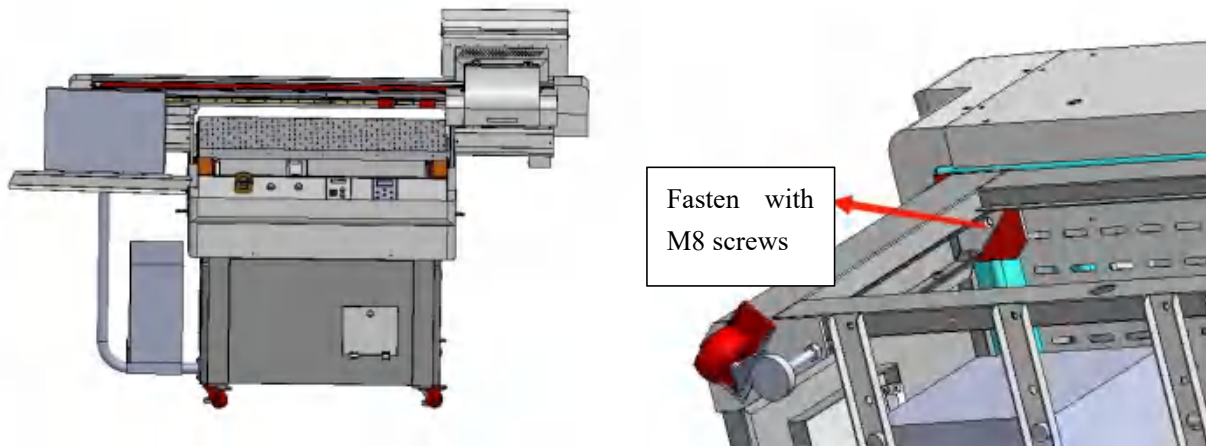
1. Equipment Assembly Instructions

1.1 After unpacking the equipment, the legs need to be assembled on site. The first step is to assemble the four shells, front, back, left, right, and bottom support plate in sequence according to the diagram below, After the assembly of the casing is completed, install four universal turbine foot supports in sequence, and then flip the frame to install the water tank and fan

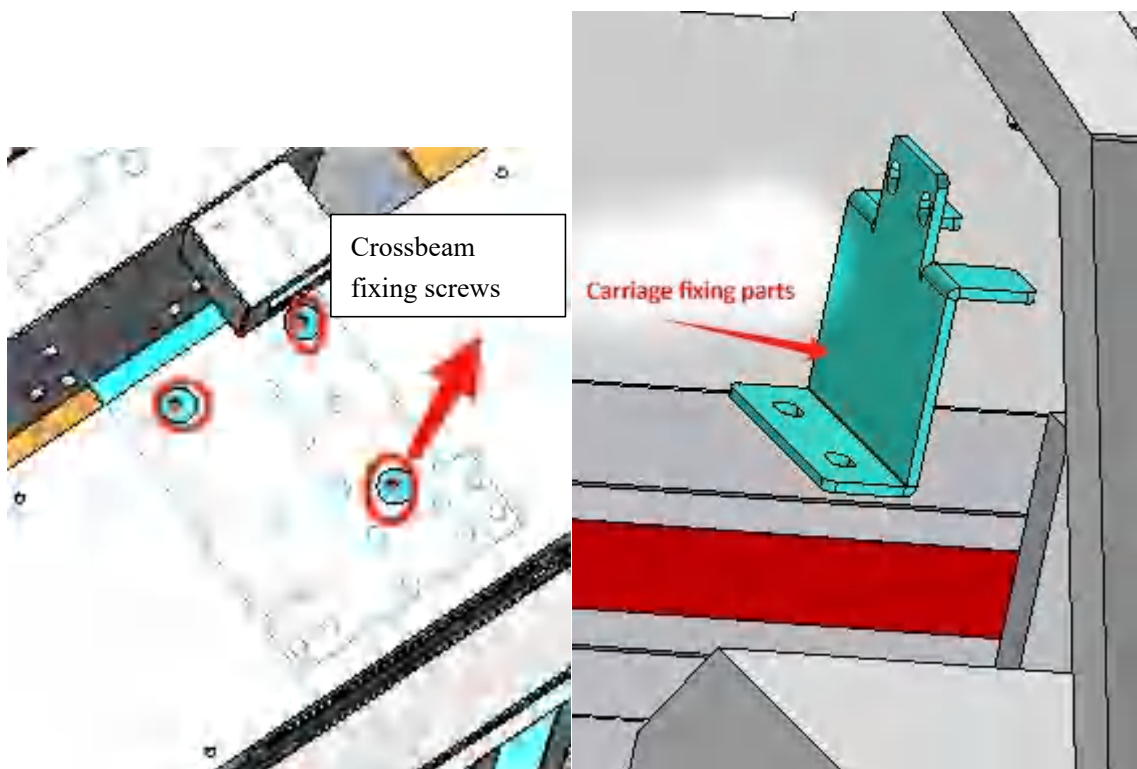


- 1 left and right bracket assembly 6 bottom bracket
- 2 front door panels, 7 casters
- 3 Rear door panel 8 Adjustable support feet
- 4 LED UV lamp water tank
- 5 Blowers

1.2 After installation, lift the whole machine onto the support legs, remove the fixing parts of the machine, align the positioning screws with the four positioning holes on the legs, and then install the fixing connectors and computer bracket. The picture below shows the complete assembly of the whole machine

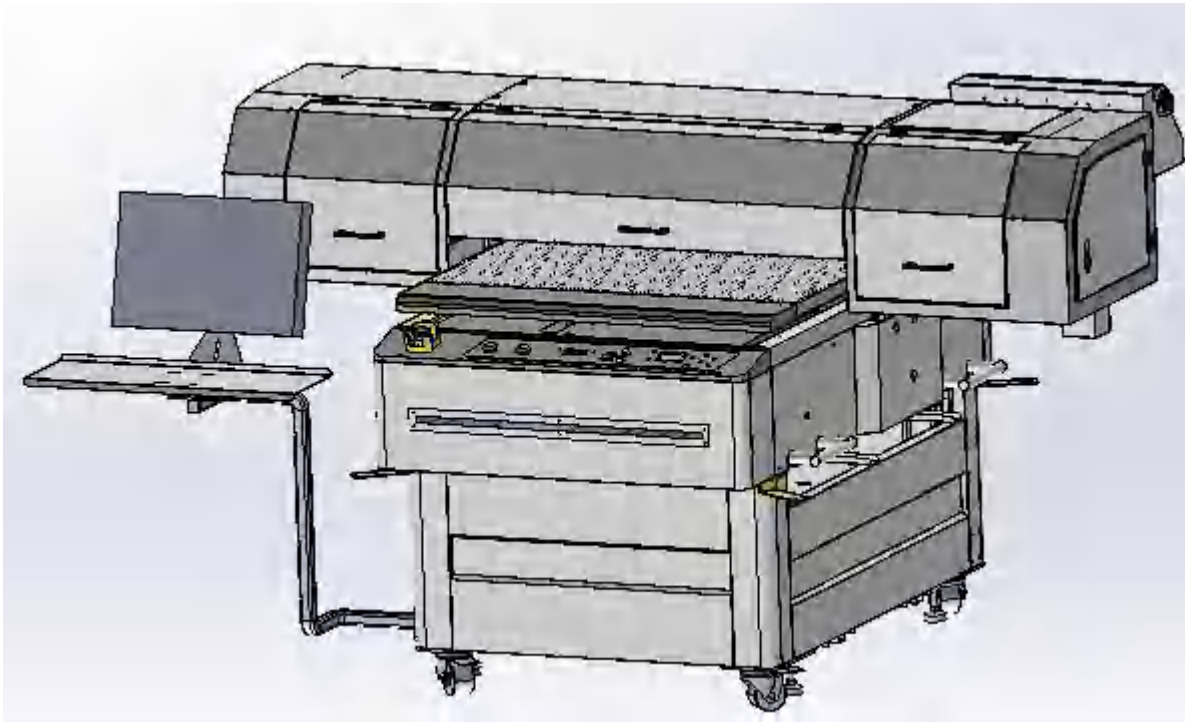


After the installation of the equipment is completed, remove the fixing parts of the trolley on the crossbeam, as well as three fixing screws on each side of the crossbeam.



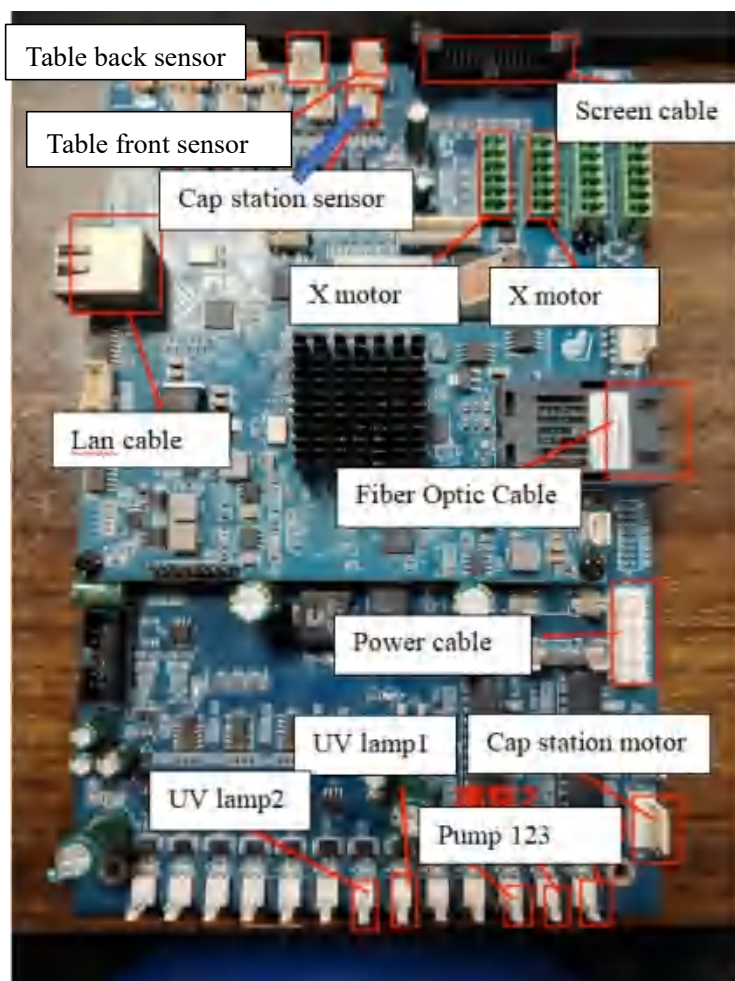
1.4 After the installation is completed, lift the whole machine onto the legs, align the rubber column with the four positioning holes on the legs, then install the fixed connectors and then install the computer bracket.

The following figure shows the picture of the complete machine assembly.

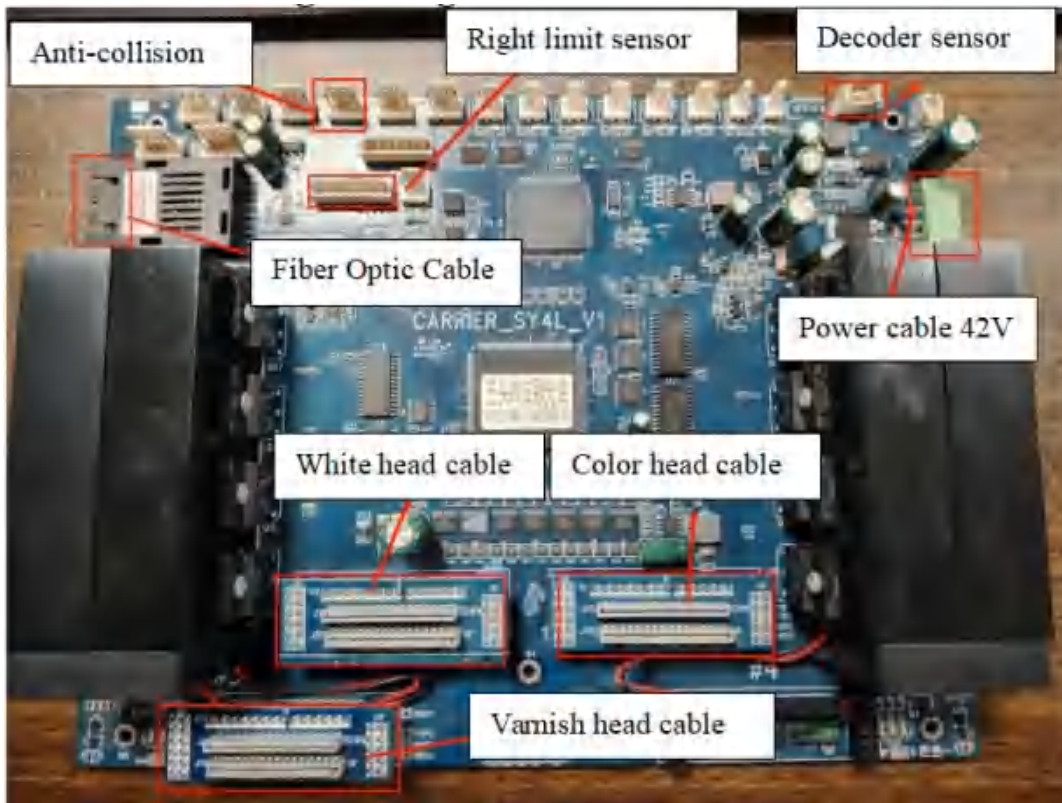


3. Board Description

Mainboard Port Description



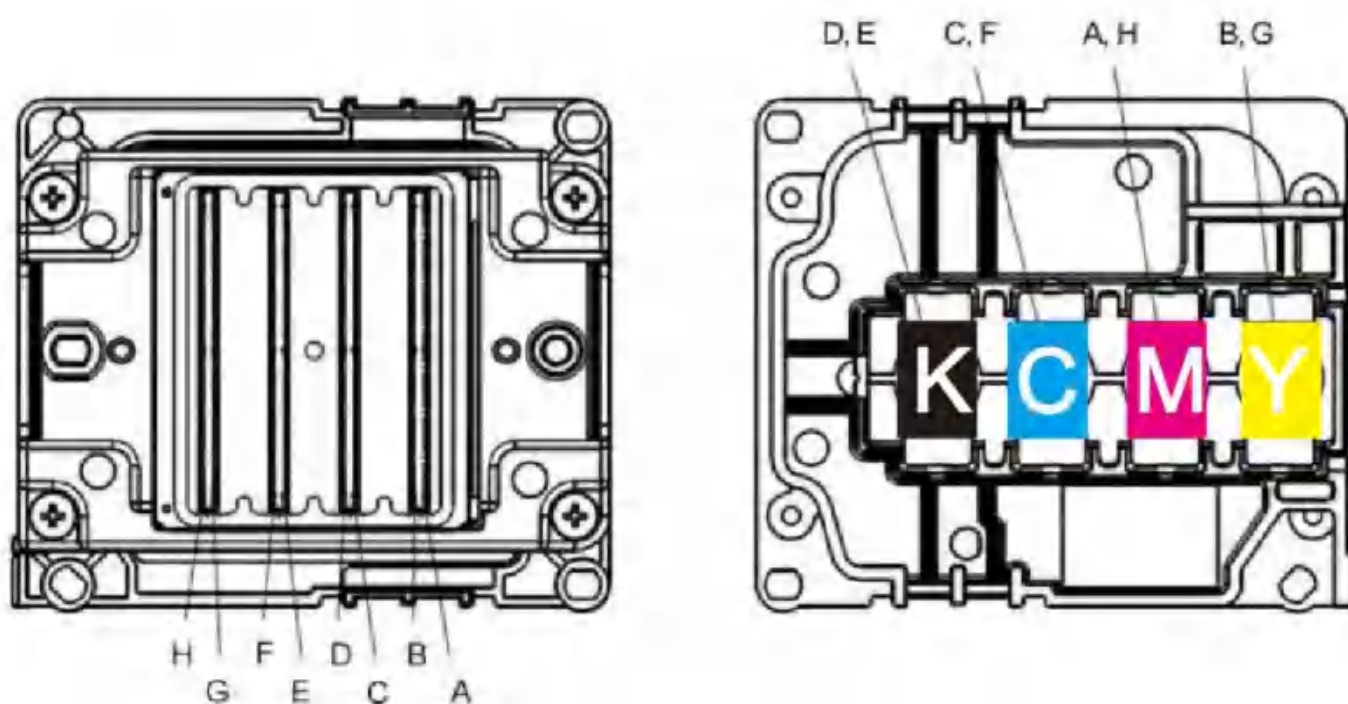
Carriage Board Port Description



Note:

- Hot plugging of all interfaces on the motherboard is prohibited and must be done with the power off.
- The motherboard power supply is divided into DC24V and DC42V. Please check whether it is the corresponding pin when connecting.
- Avoid 180° bends when inserting optical fibers

The installation position of the structure of the color nozzle and the installation sequence of the ink bag

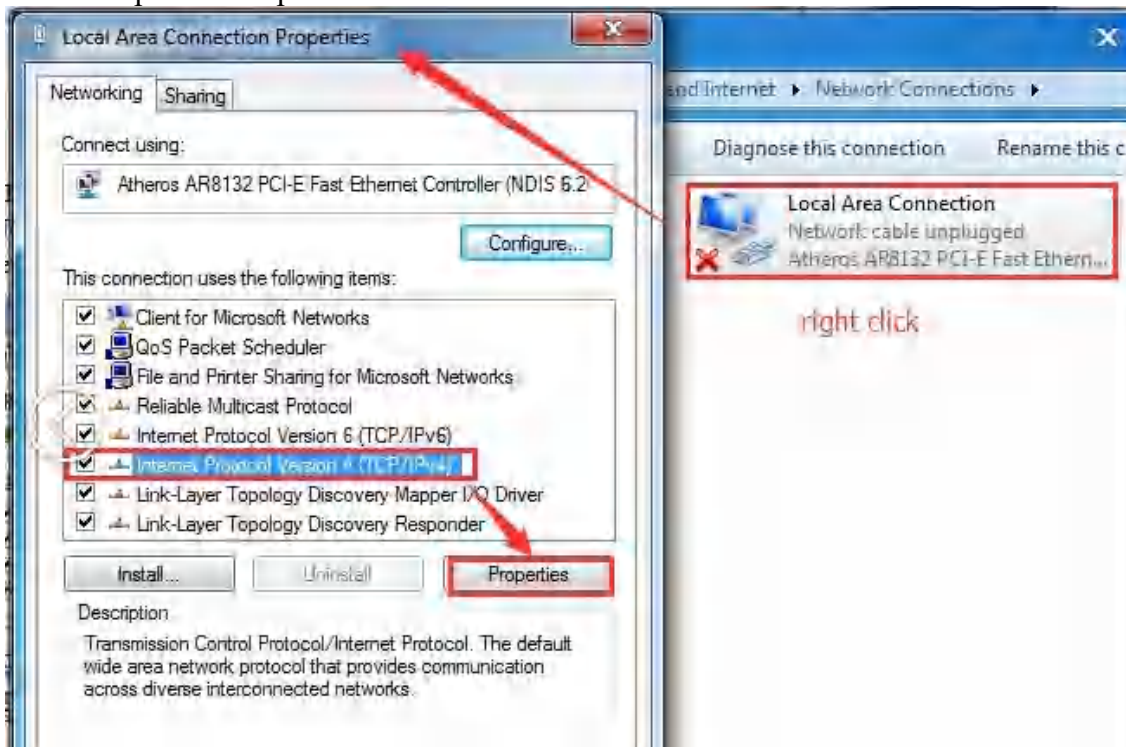


Chapter 4 Operating Software Description

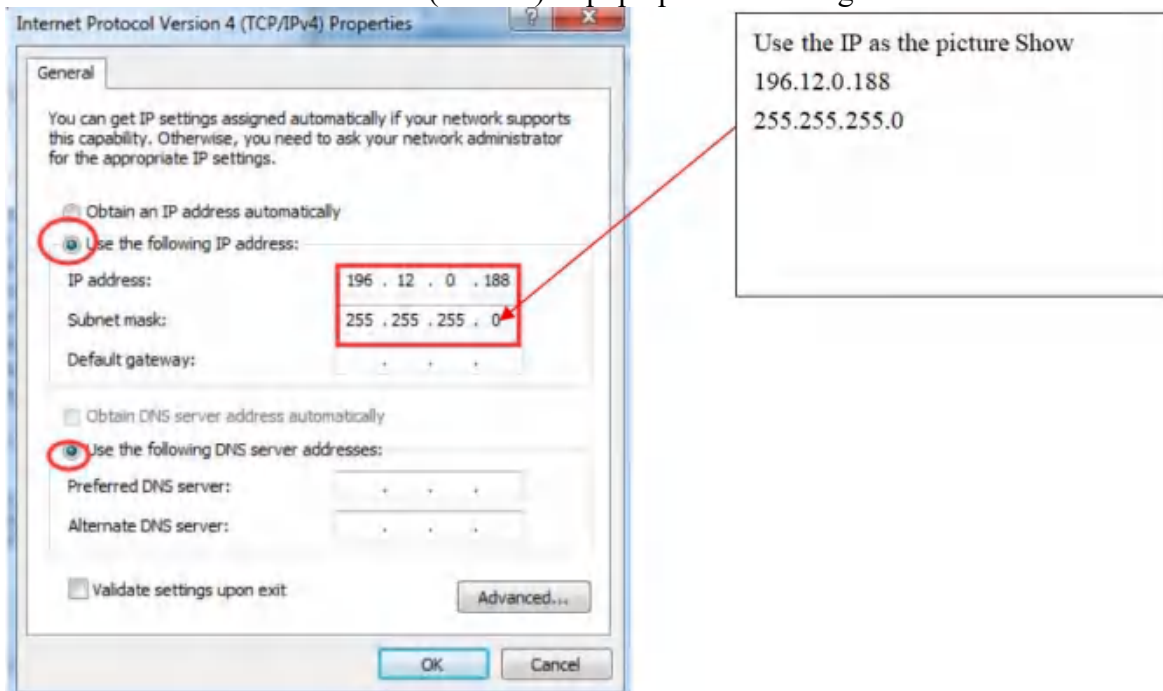
PC terminal settings and control software settings

1. Set the computer network IP

Right-click on the Network Neighborhood icon and select Properties -> Select Local Connection, right-click Properties to open this interface



Double-click Internet Protocol (TCP/IP) to pop up the following interface



Online tool operating environment

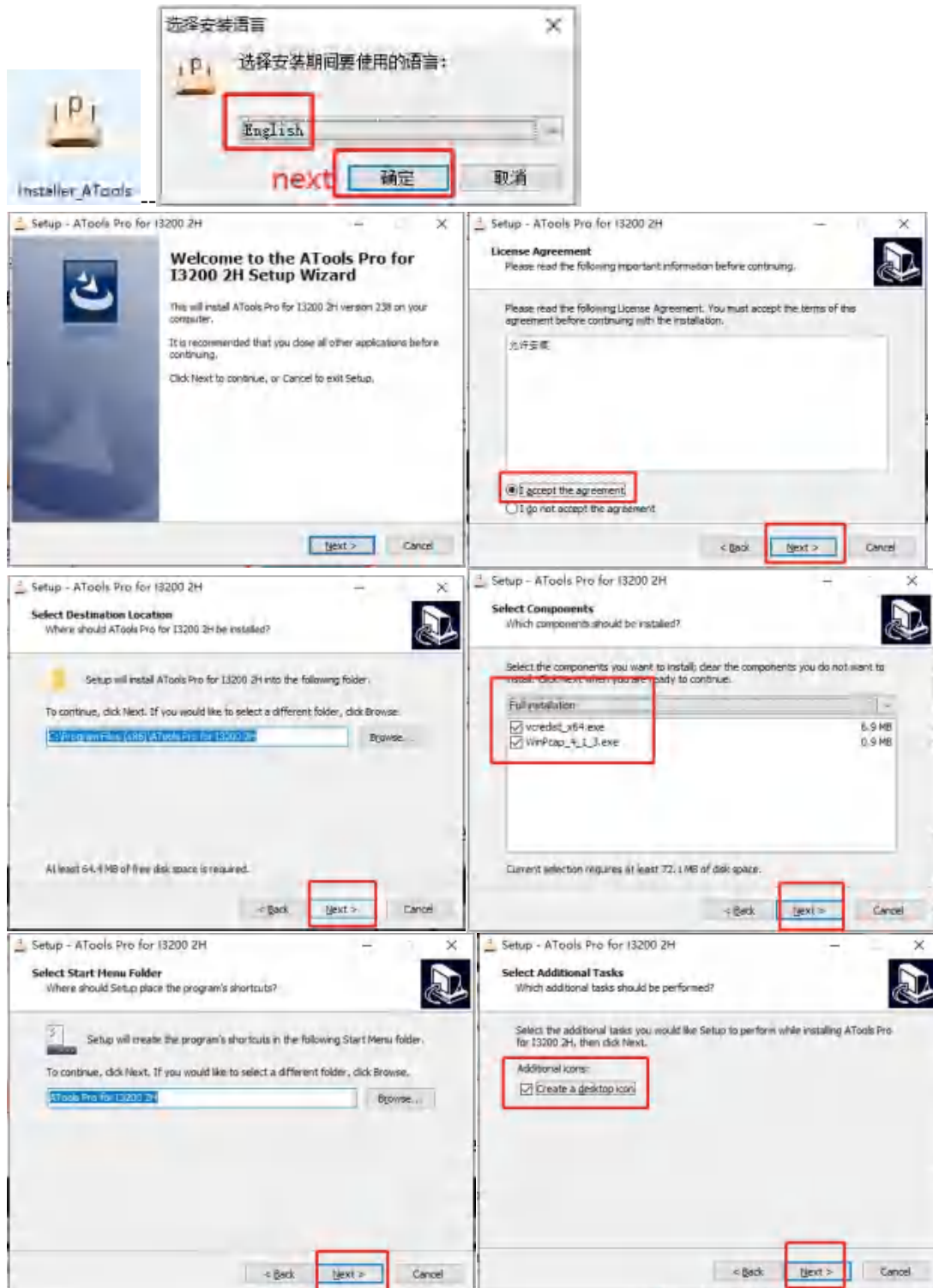
1.1 Hardware environment:

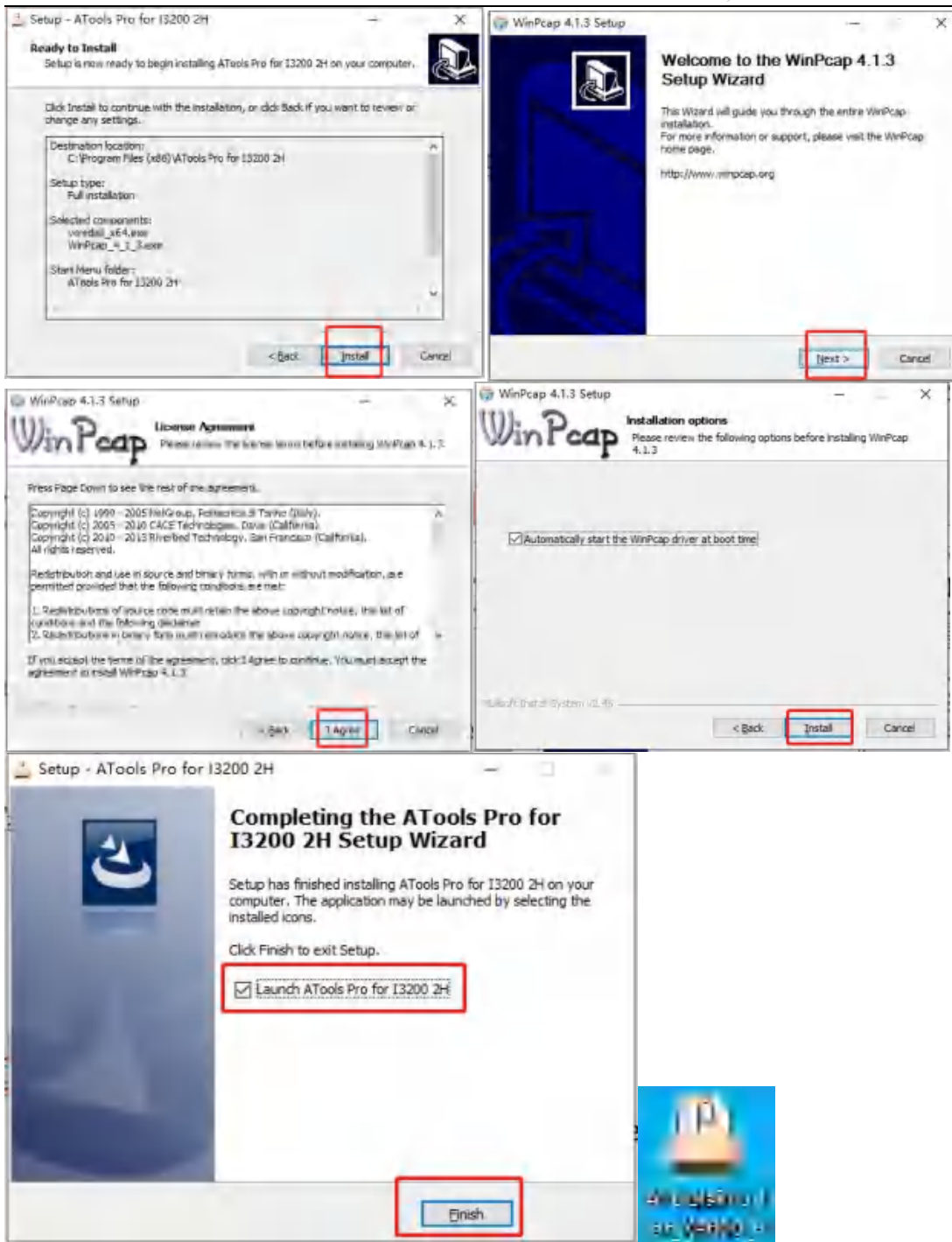
1. PC system: Windows10/11 64-bit operating system
2. Memory: 8.0G memory
3. Hard disk space: 500GB hard disk
4. Computer network card: Gigabit network

1.2 Installation Instructions

Open the USB drive of the control software and unzip it to the newly created folder.
Copy the unpacked software to the desktop

1.2.1 install atools



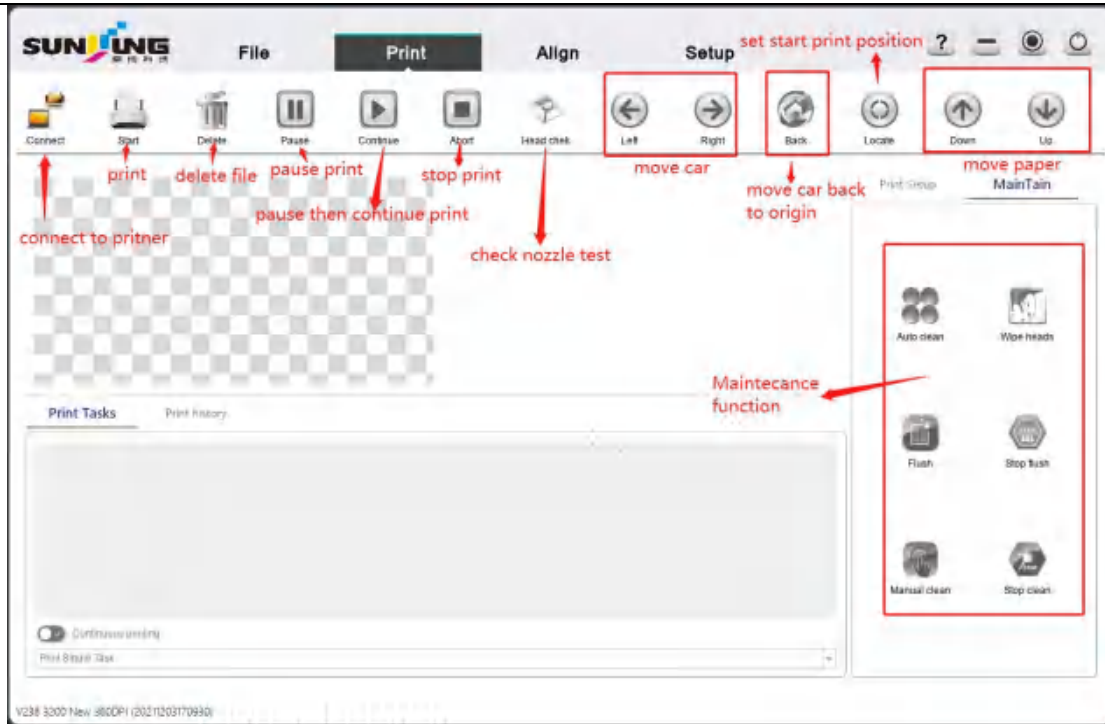


1.3 Tool Introduction

The specific functions and requirements of the tool determine the basic idea and overall structure of the tool design, which is the guide of tool design.

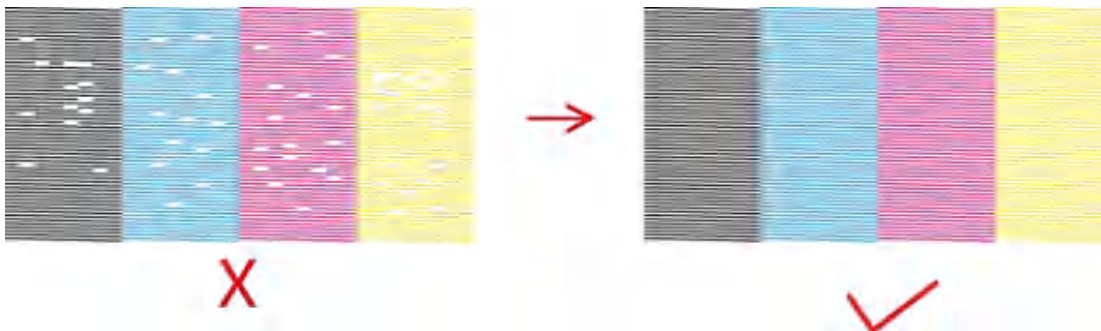
Direction is the basic goal of tool development. The design of the tool is based on the specific functions and requirements of the tool, and the design of the tool is also carried out to achieve the specific functions and requirements of the tool.

Therefore, at the beginning of the design, the specific functions and requirements of the tool should be clarified first. The tool is divided into several modules, including "file" module, "print" module, "calibration" module, and "settings" module. Users can perform different operations on the machine according to different functions to achieve the best printing effect.



1.3.1 Nozzle test

Note: After power on, first check the print head status, press **Enter** button into **Equipment Maintenance**--test. If the status is not good, click **clean**, continue the adjustment after getting better print head status.



1.3.2 " Print file " Module Description

Add a print job

Click File Page, which has a file extension of ".prn" and other file formats, in the dialog box, you can select the file directory, name, etc. After the settings are completed,



click the Open button, the system will execute the file open operation and load the file into the print

job column.

the file extension is ".prn" and other file formats. In the dialog box, you can select the file directory, name, etc. After the settings are completed, click the Open button, the system will execute the file open operation and load the file into the print job column.

1.3.3. “Print Settings” Module Description



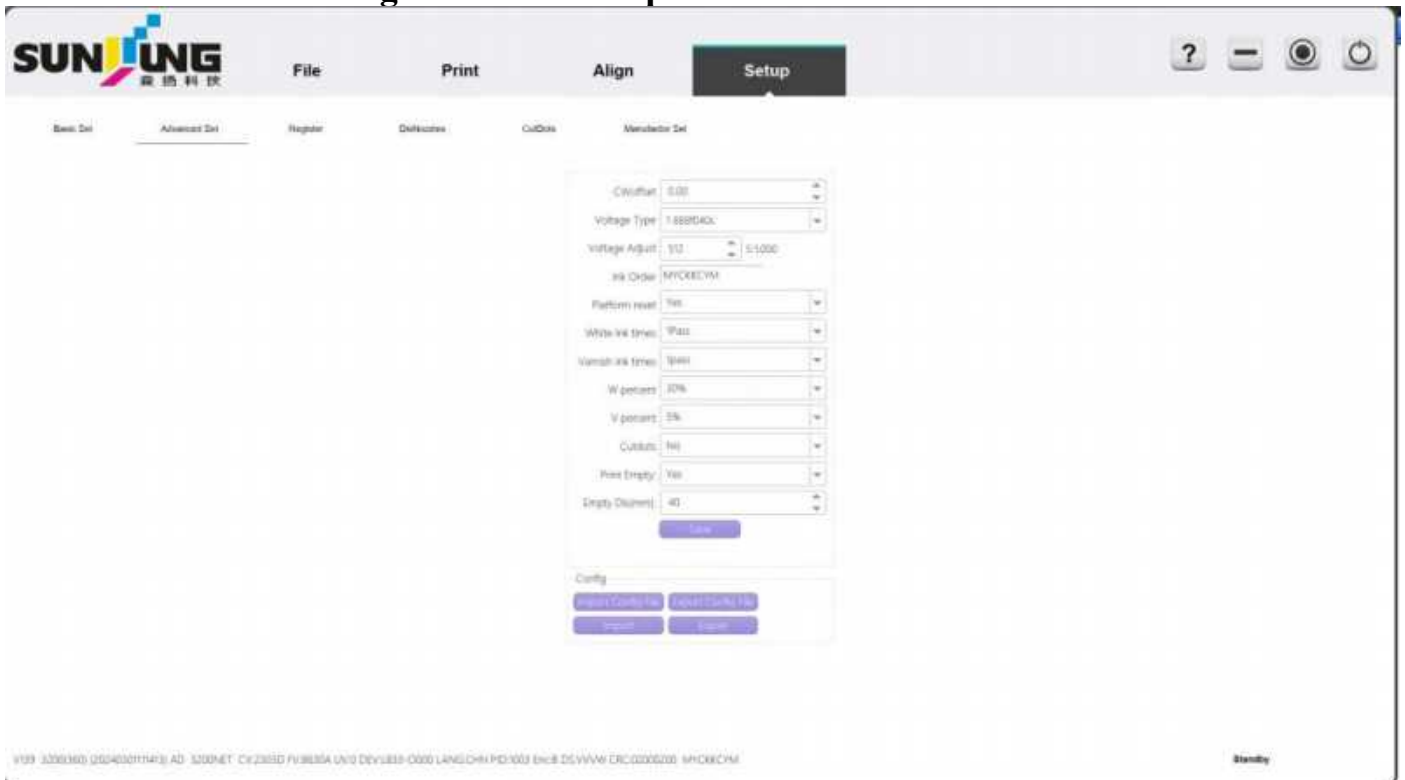
Print settings:

- (1) Direction unidirectional, nozzle unidirectional printing; Bidirectional, the nozzle prints back and forth.
- (2) Feathering stage, without using the feathering function; Low, low emergence effect; Medium, moderate emergence effect; High, the eclosion effect is advanced.
- (3) Speed one, low speed; Speed two, high speed.
- (4) W_C setup: select the print head

W_C Seq: White color sequence White color is positive image printing Color white is mirror printing.

- (5) Color bar off, no color bars on both sides of the screen when printing; On the left, there is a color bar on the left side of the printed screen; Right, there is a color bar on the right side of the printed screen

1.3.4 Advanced Settings module description



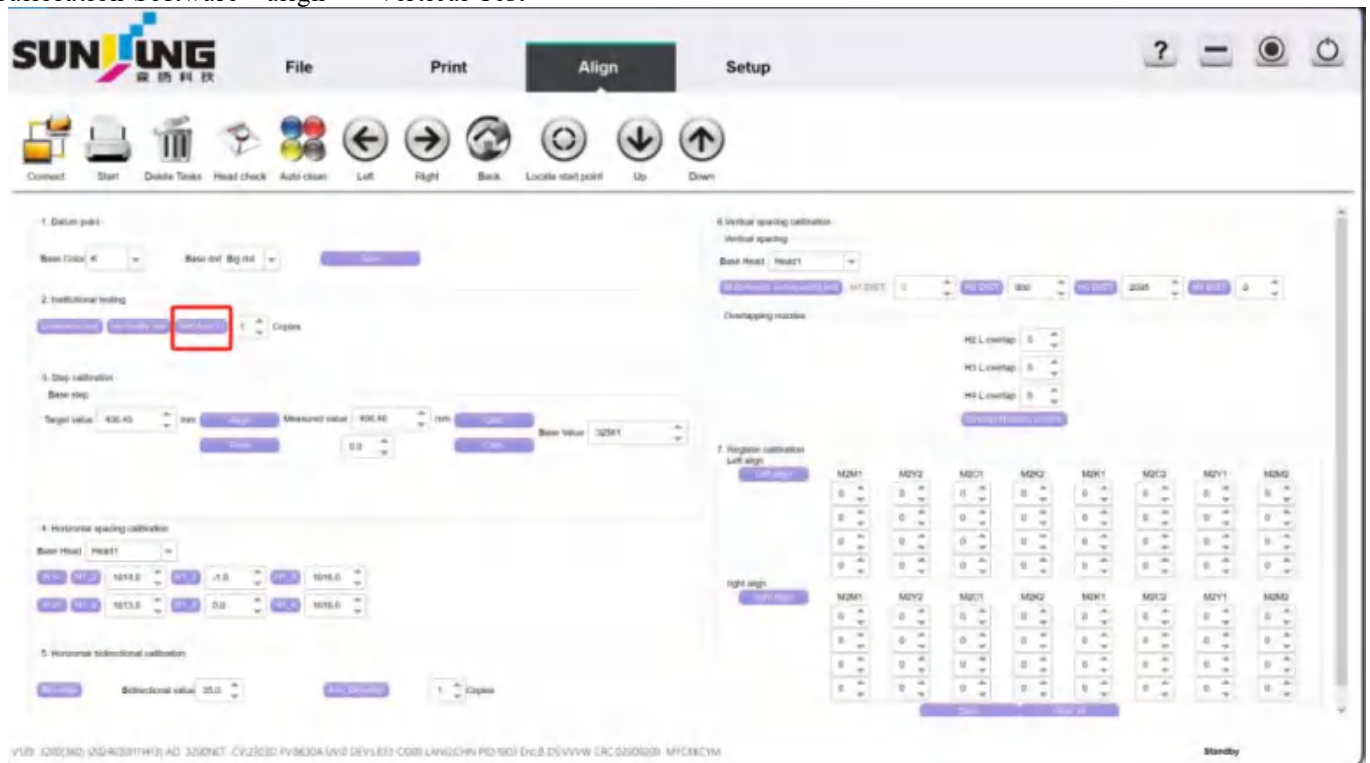
Enter advanced settings (password: 16753)

- (1) The adjustment range of voltage adjustment parameters is 460-580. The standard value is 512. (It is not recommended to adjust the voltage privately, as voltage exceeding 580 will burn the nozzle)
- (2) Voltage type 1 888f040c
- (3) Ink sequence (calibration software Color: MYCKKCYM)
- (4) Is the printing platform reset? Generally, select 'yes', and select 'no' for in-situ printing
- (5) The number of repetitions for white ink and gloss oil can be selected separately for printing PASS, usually set to 1PASS by default, and can be changed according to needs
- (6) The percentage of white ink and gloss oil can be controlled separately, and the ink volume of white ink and gloss oil can be changed according to demand
- (7) Cutdowns: use print Cylinder(1/4 or 1/6)
- (8) Set the empty distance to 10 and generally do not move

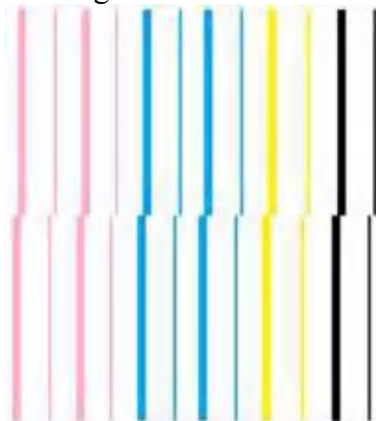
1.3.5" Calibration " module

1.3.5.1 Vertical calibration

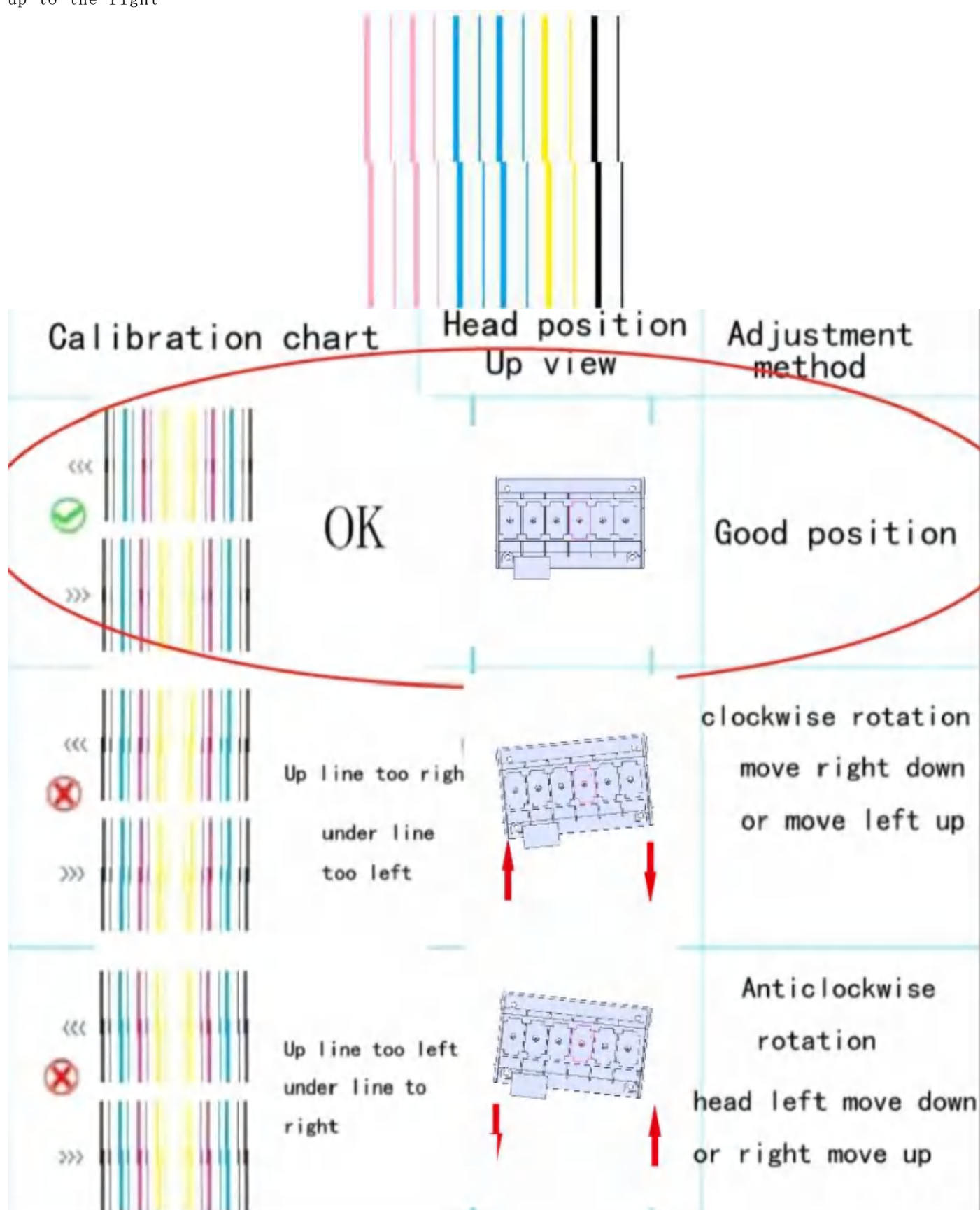
Calibration Software - align - Vertical Test



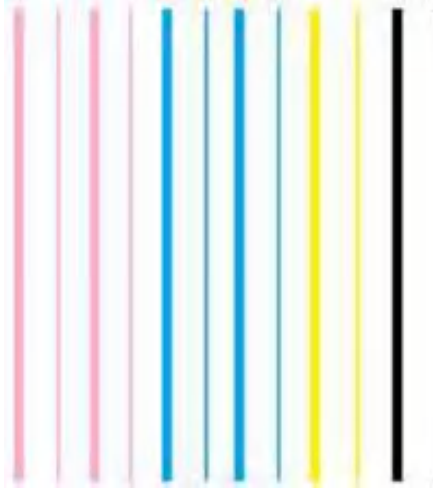
The vertical calibration diagram below shows that the nozzle has tilted and needs to be calibrated. The nozzle can be pushed up left or pulled down right



If the following calibration situation occurs, the nozzle can be pulled down to the left or pushed up to the right

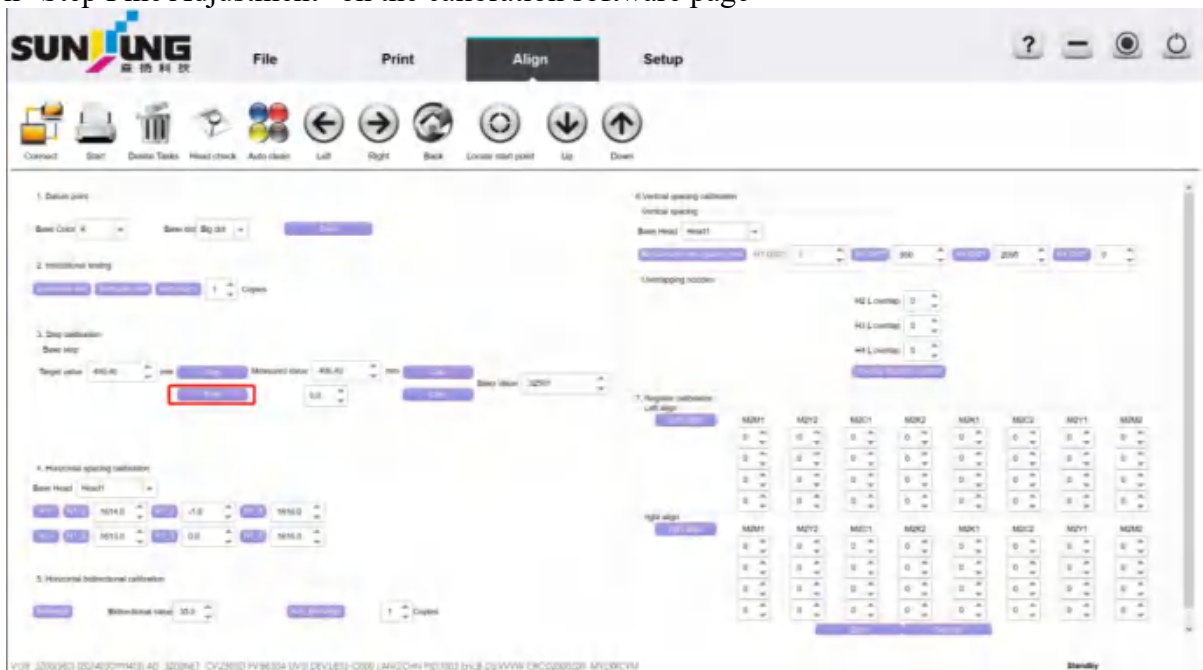


(3) This state indicates that the nozzle is already vertical.



1.3.5.2 Step calibration

Click on "Step Fine Adjustment" on the calibration software page



(2) When the step value is not precise, the line at "0" will be separated. At this time, the value should be increased or decreased based on the line type (after modifying the step value, click save)



(3) When the step value is precise, the line at "0" will overlap



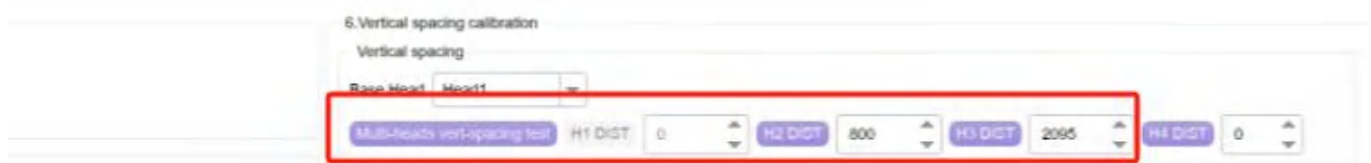
1.3.5.3 Head calibration



Click on Head1 2 and Head1 3 to print the calibration chart



Observe the printed graphic, select the white and black lines that completely overlap each other, add the corresponding number to the value shown in the head horizontal spacing calibration area, manually input the calculation result, and then click the "Save Parameters" button. For example, the line corresponding to 3 overlaps the best, and the calculation result is $1501+3=1504$. Fill in 1504 and click save. Use the above method to calibrate that the white line on head 1 and head 3 completely overlaps with the oil line



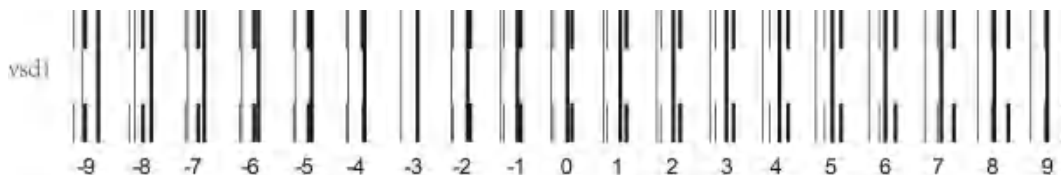
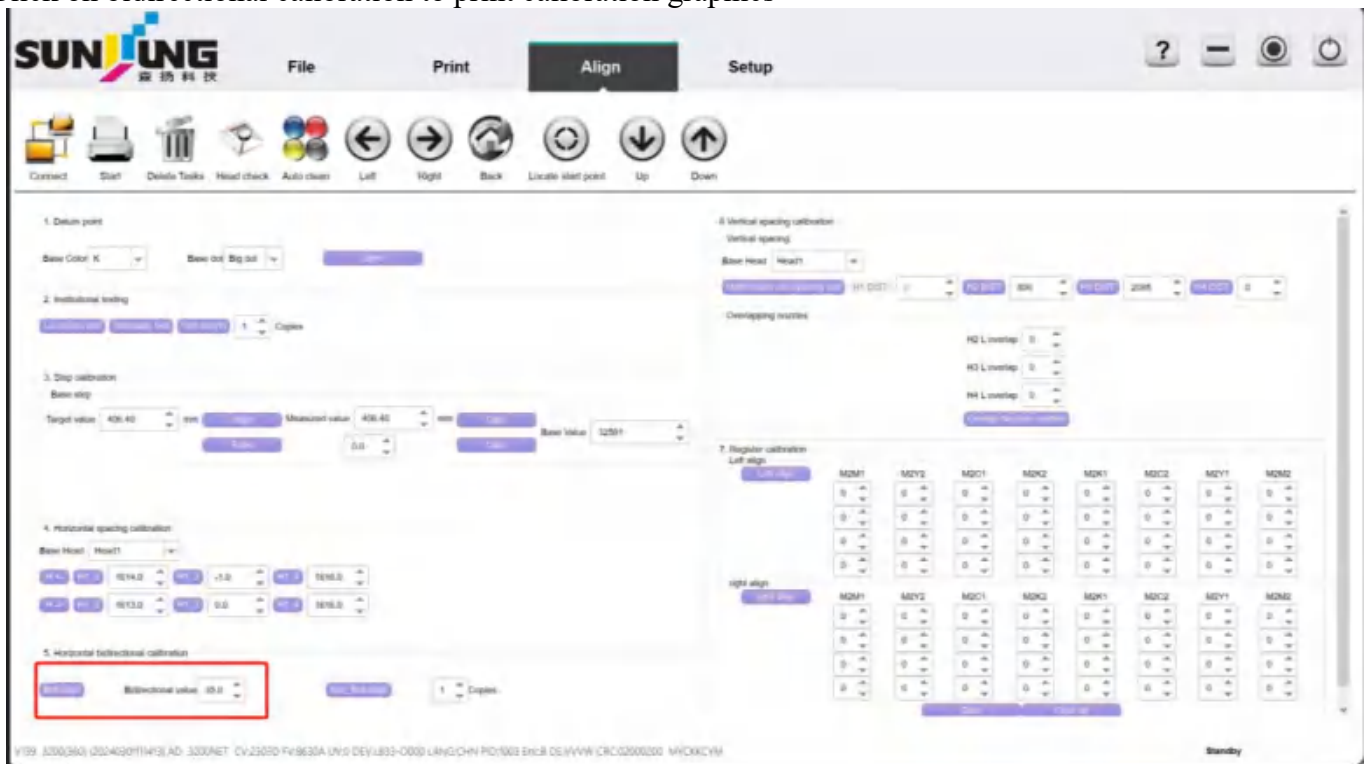
Click on Head 2 dist and Head 3dist to print the calibration chart



Observe the printed graphic, select the white and black lines that completely overlap each other, add the corresponding number to the value shown in the head horizontal spacing calibration area, manually input the calculation result, and then click the "Save Parameters" button. For example, the line corresponding to 3 overlaps the best, and the calculation result is $1501+3=1504$. Fill in 1504 and click save. Use the above method to calibrate that the white line on head 1 and head 3 completely overlaps with the oil line

1.3.5.4 Bidirectional calibration

Click on bidirectional calibration to print calibration graphics



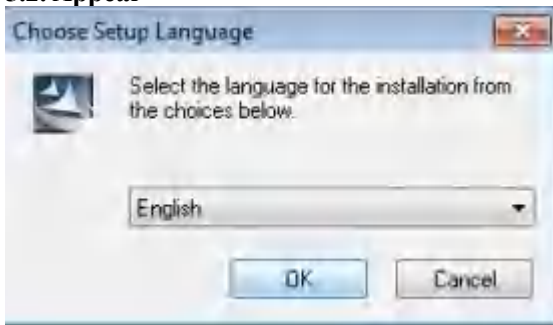
Observe the printed graphic, select the thick and thin lines that completely overlap each other, add the corresponding numbers to the values in the bidirectional calibration area, manually input the calculation results, and then click the "Save Parameters" button. For example, the line corresponding to -3 overlaps the best, and the calculation result is $29-3=26$. Fill in 26 in the bidirectional calibration data area and save the parameters.

All calibrations are now complete

Chapter 5 Flexi install and use

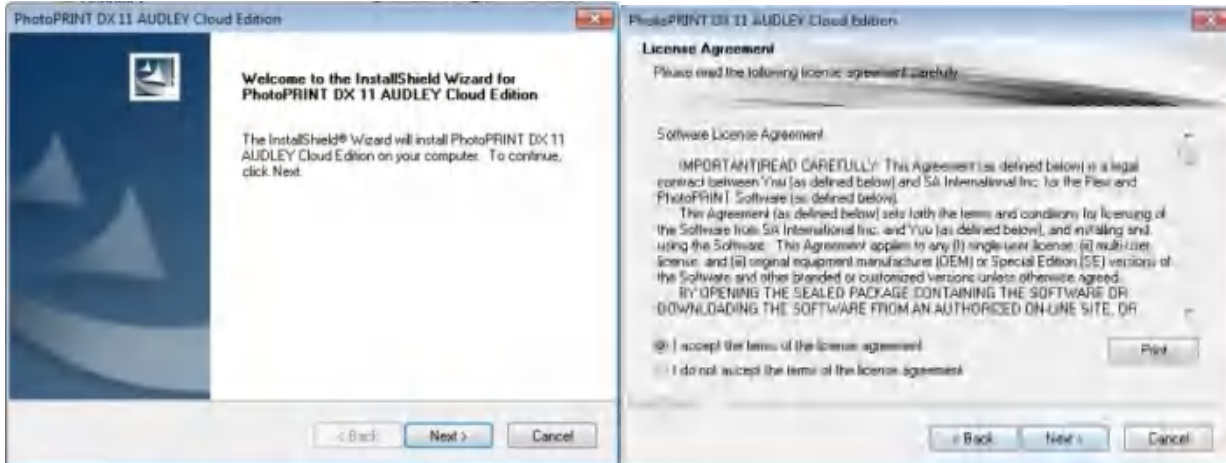
5.1. Open the photoprint directory and double-click the icon to run the installer.

5.2. Appear



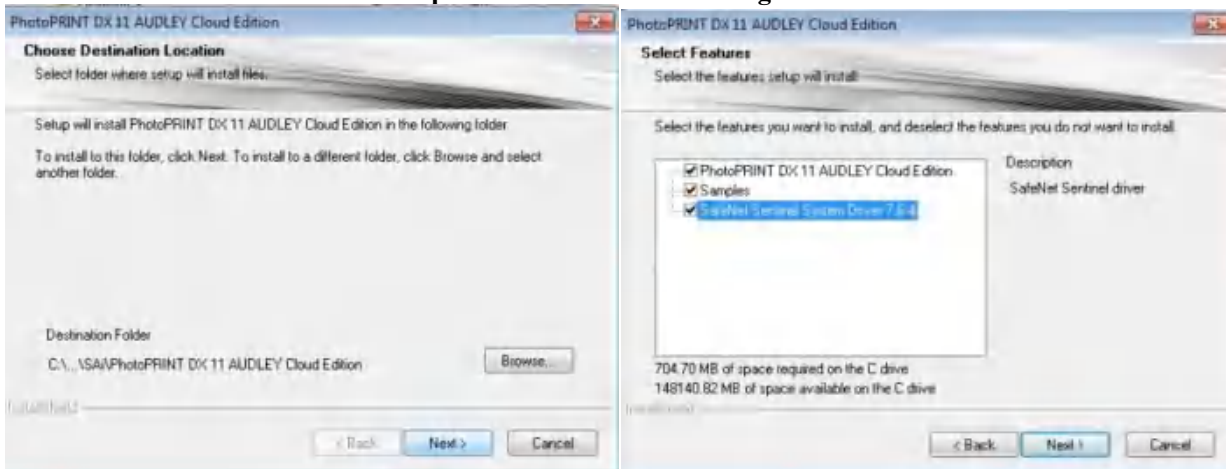
You can select the language and click OK.

5.3. Appear



Click Next on this interface.

5.4 Click the circle in front of I accept the terms in the license agreement and click Next.



Can choose to browse In which drive letter to install, click Next.

Choose “SafeNet Sentinel System Driver7.6.4 “, Click Next.

5.5

PhotoPRINT DX 11 AUDLEY Cloud Edition

Setup Status

PhotoPRINT DX 11 AUDLEY Cloud Edition is configuring your new software installation.

SAi Production Suite - InstallShield Wizard

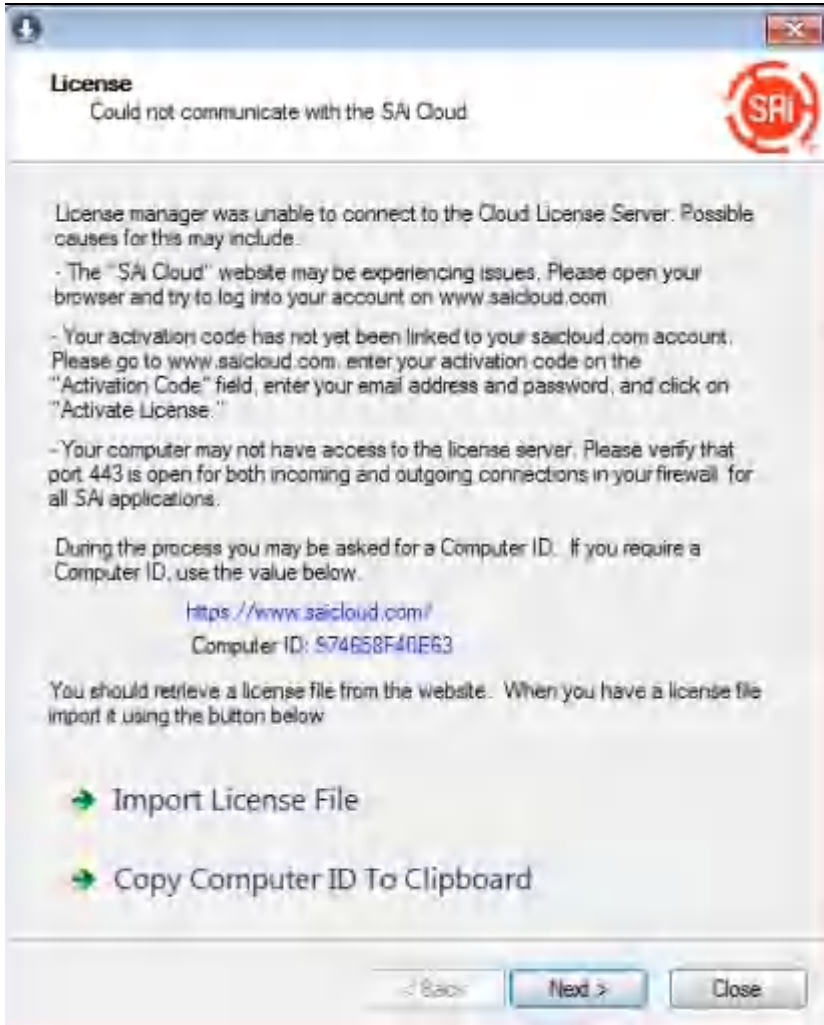
 If the USB dongle is connected to the computer, please remove it now, so that the dongle driver can be installed

OK

InstallShield

Cancel

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www.saicloud.com

Welcome to the SAI Cloud.

Activate a New License

Please enter the activation code that accompanied your software purchase.

Activation Code

Activate

Use this only if you have purchased a new license and you are activating this license for the first time.

Login to SAI Cloud Account

Email

Password

Login

[Forgot Password?](#)

Use this if you have already activated your license and are checking back in for an overview of your licenses, managing your subscriptions, editing your account information or reviewing approval jobs

The activation code is on the back of the software



Click Finish.wait icon appears on the desktop.



5.7 PhotoPrint Software settings:



5.7.1、 Ringt click this icon on the desktop

5.7.2 Select SY-3200-MINI in the figure below, and click Next.

Choose a device

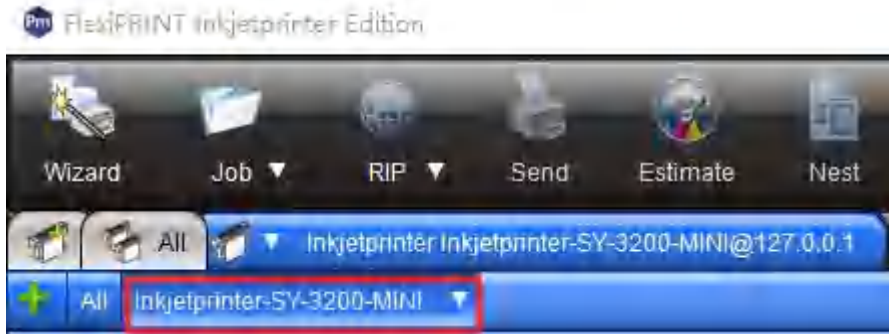
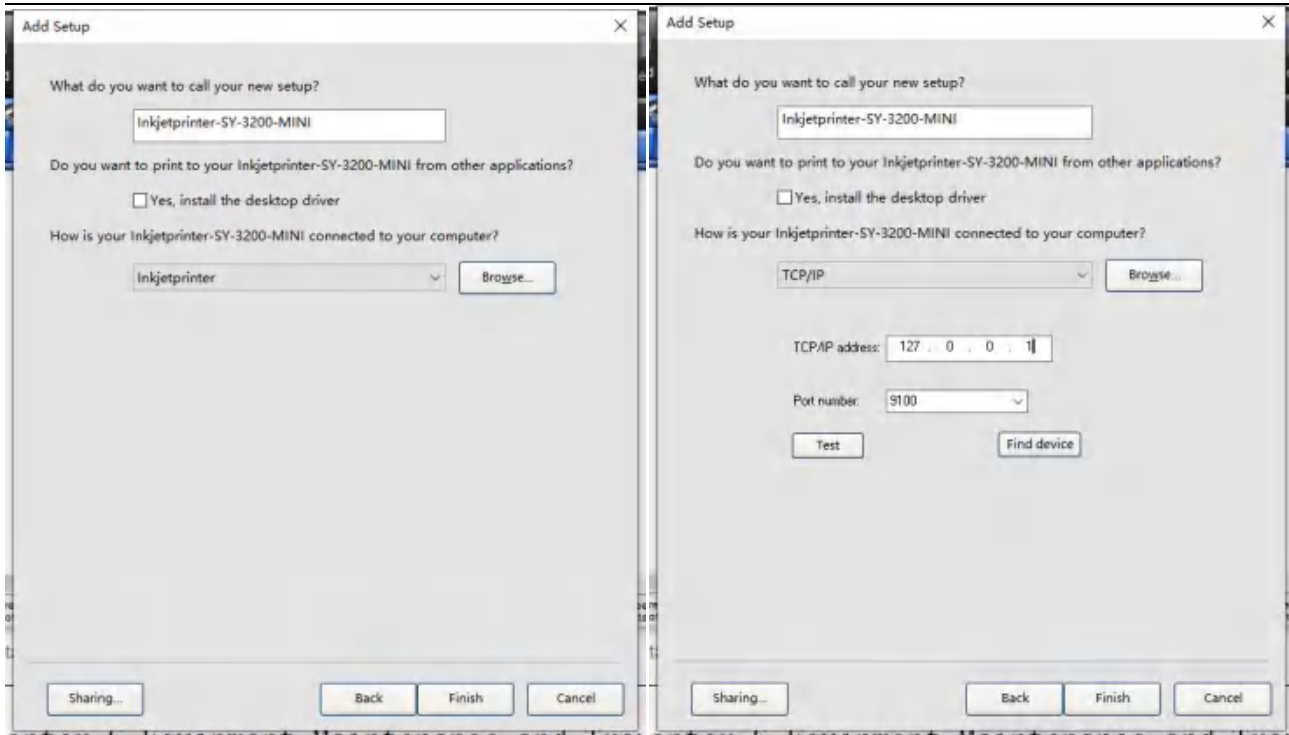
What is the brand name of your color printer?

Inkjetprinter

What is the model name of your Inkjetprinter?

Inkjetprinter-SY-3200-MINI

5.7.3



Default Job Properties

Preset: [dropdown]

Media size

34.000cm x 52.000cm [Remove]

34.000cm 52.000cm

0.000cm 0.000cm

0.000cm 0.000cm

Job size

100.000% 100.000%

☐ Fit to media ☒ Proportional

Position

0.000cm 0.000cm

Copies

0.254cm 0.254cm

☐ Page range ☒ Page nesting

F

Reset

PDF Page Size...

OK Cancel Apply

Default Job Properties

Preset: [dropdown]

Color correction

No color correction **add icc**

Output profile: Add...

Media: Add...

Resolution: 720x720 DPI

Color mode: CMYKcLm(2 bits) Choke...

Dither: Enhanced Stochastic Edit...

☐ Smooth gradients

Advanced...

☒ Use color mapping Color Mapping...

☐ Ignore overprint ☐ Anti-aliasing

☐ Apply white knockout for overprint

Variable dot profile: None

OK Cancel Apply

Default Job Properties

Preset: [dropdown]

Spot_1 Spot color

Spot_2 Spot color

Spot_3 Spot color

Spot_4 Spot color

Spot Color & Ink set...

Restore Defaults

OK Cancel Apply

Default Job Properties

Preset: [dropdown]

☐ Print negative

Channel: All

Input: 0.000%

Output: 0.000%

Export...

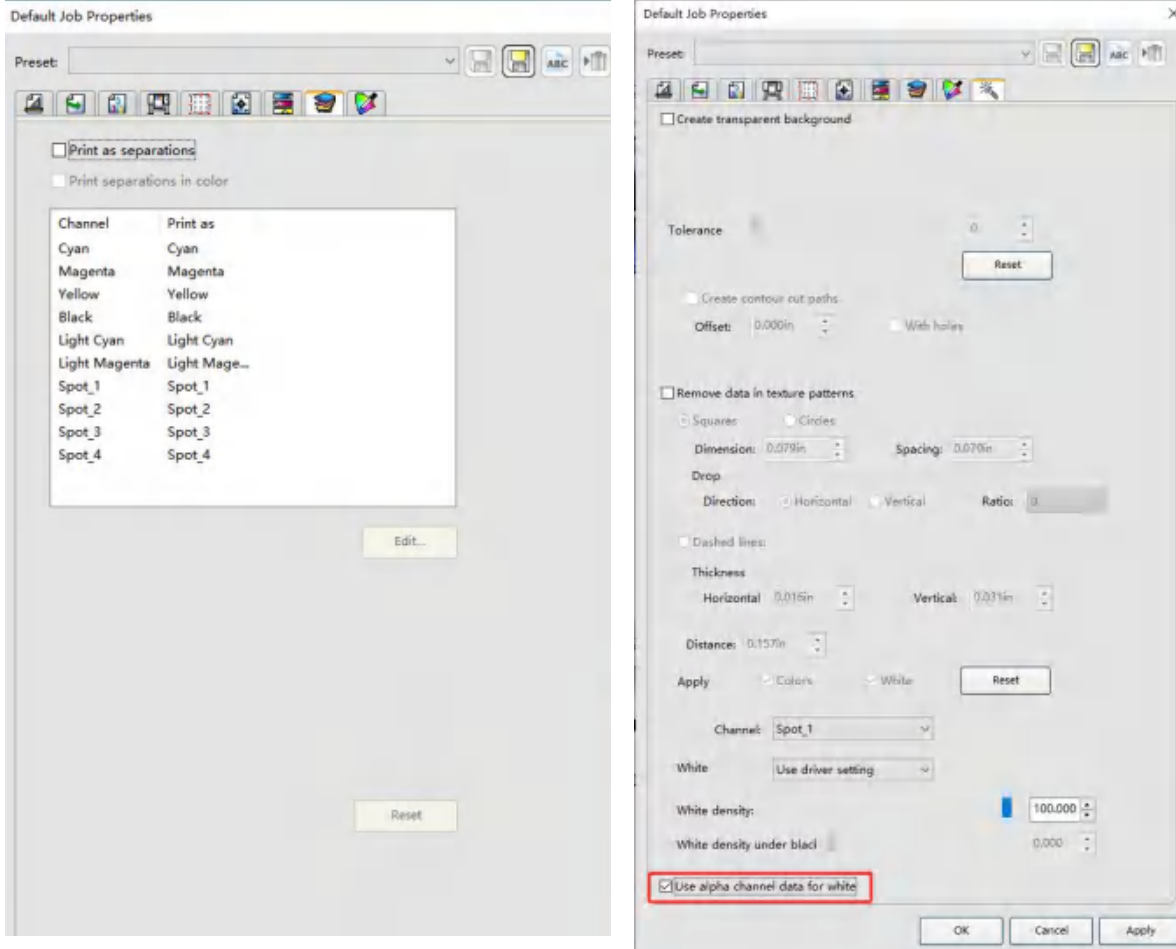
Import...

Generate Curves From Density ICC...

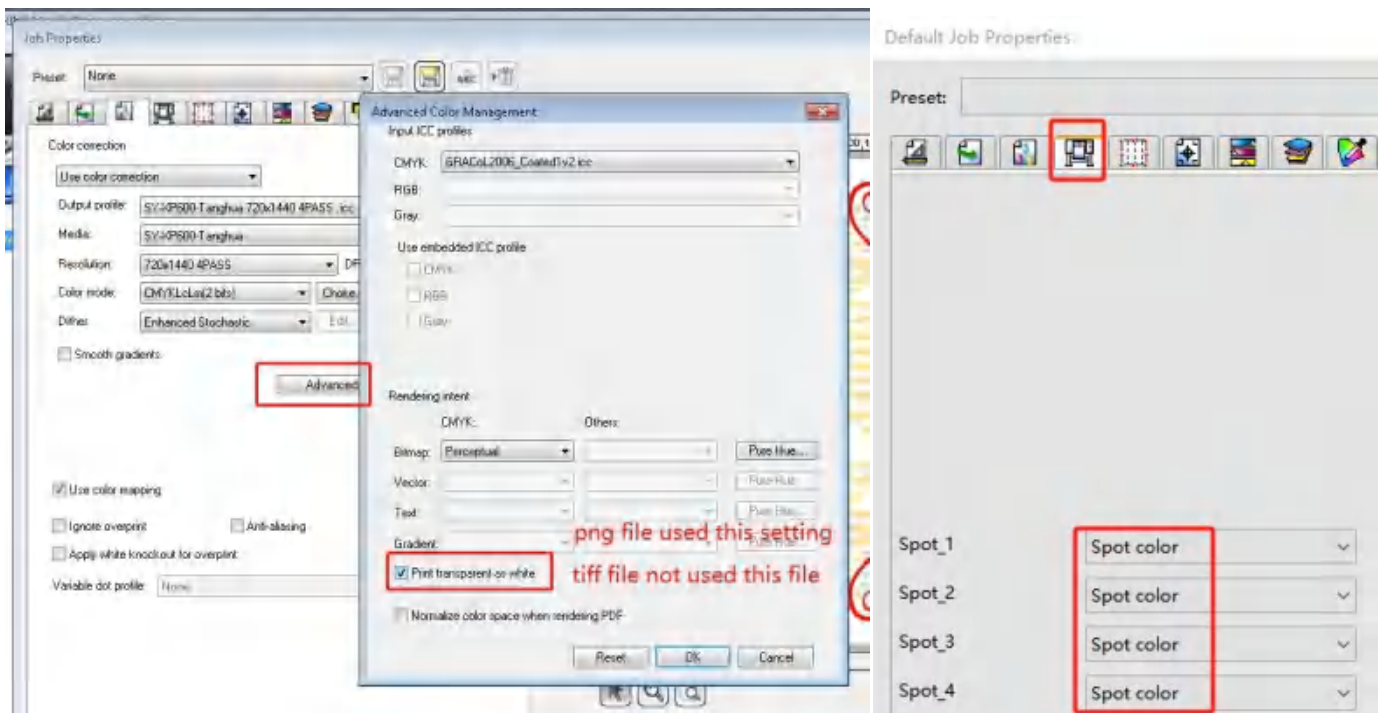
Contrast: -100% +100%

Advanced... Delete Reset Reset All

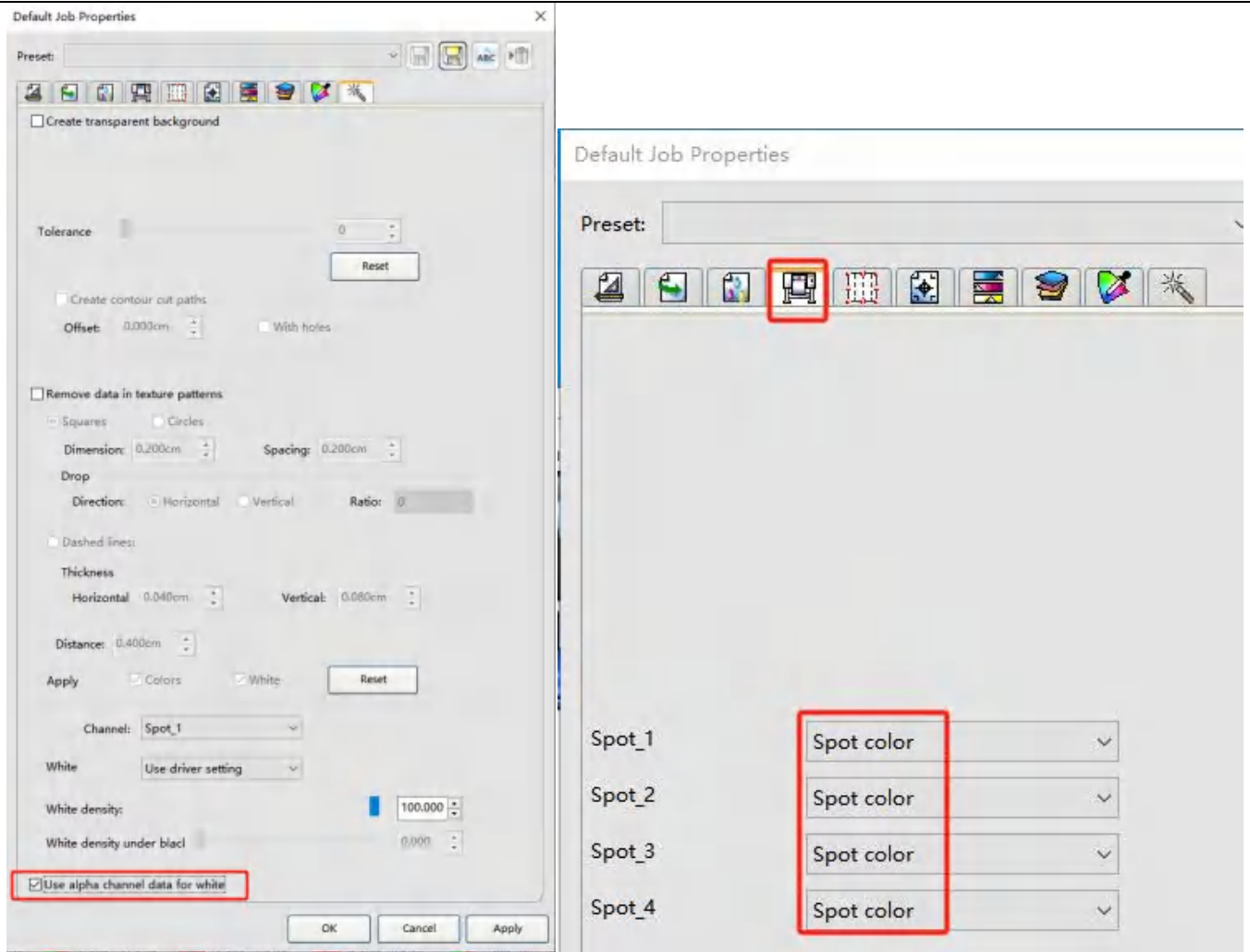
OK Cancel Apply



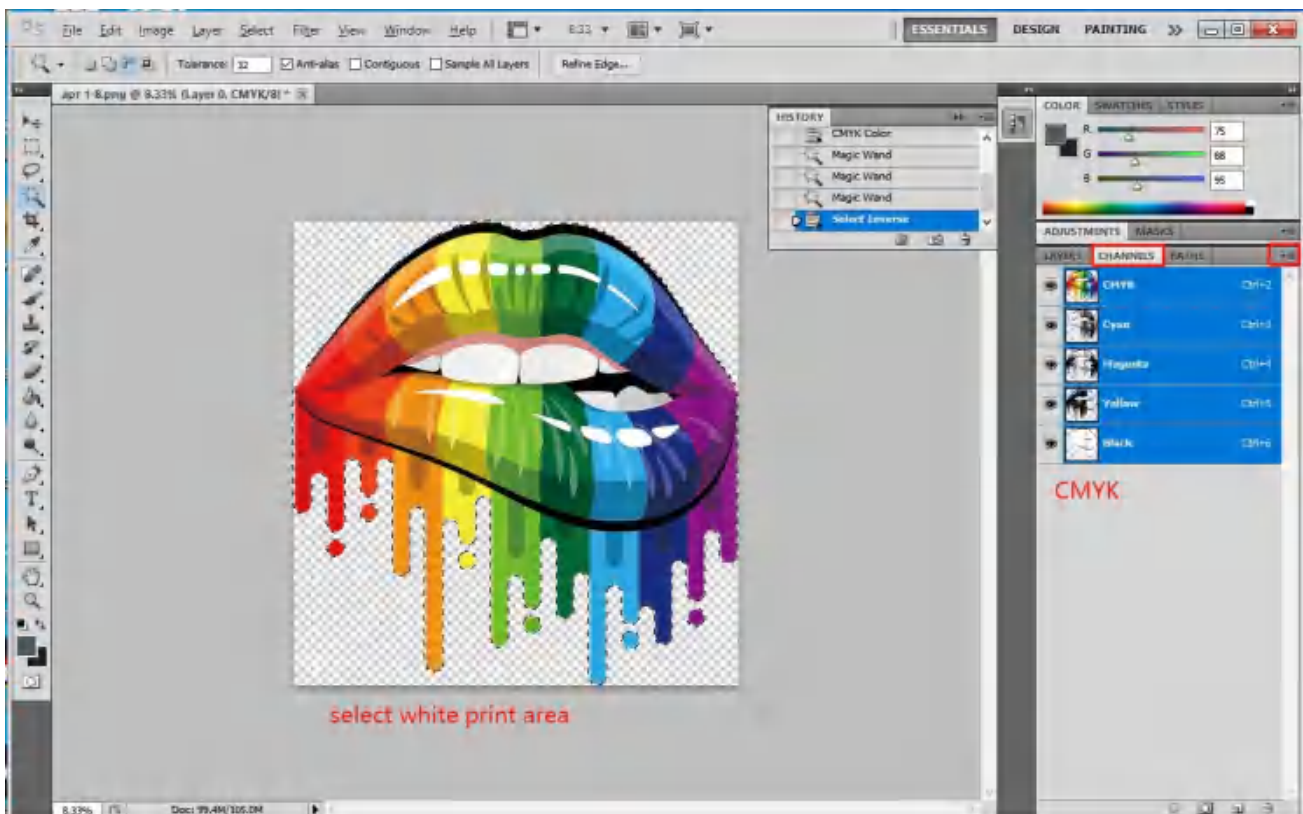
5.7.4 print png file 19 flexi

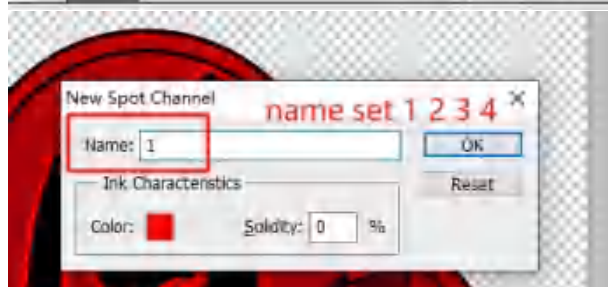
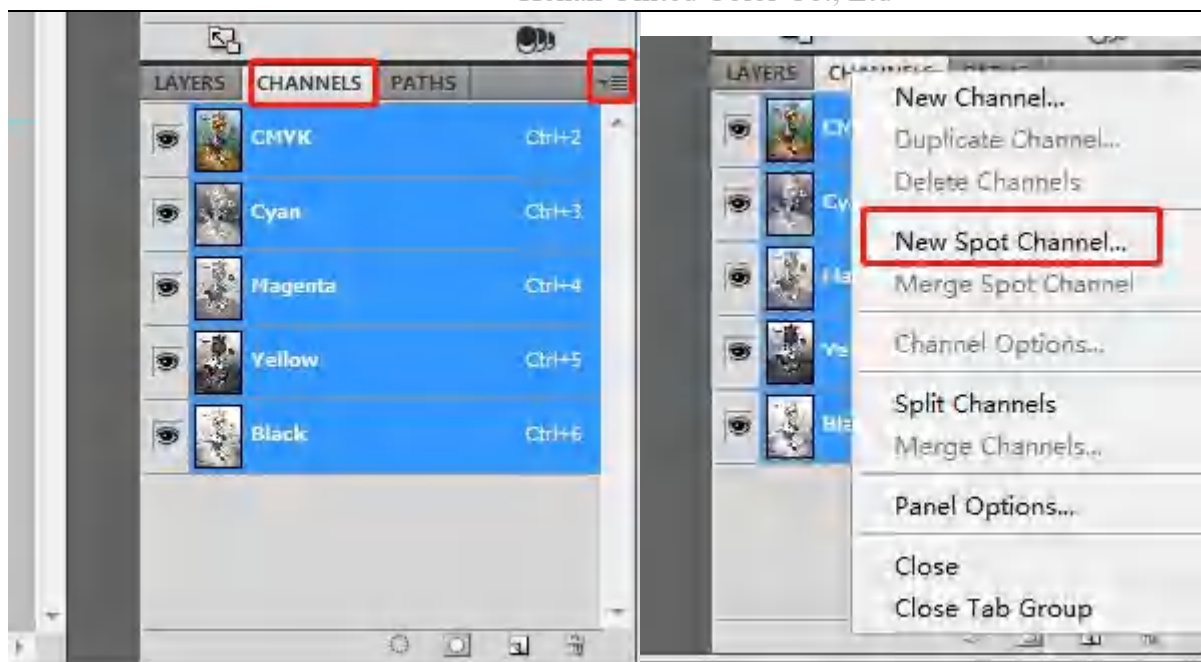


22flexi print png file



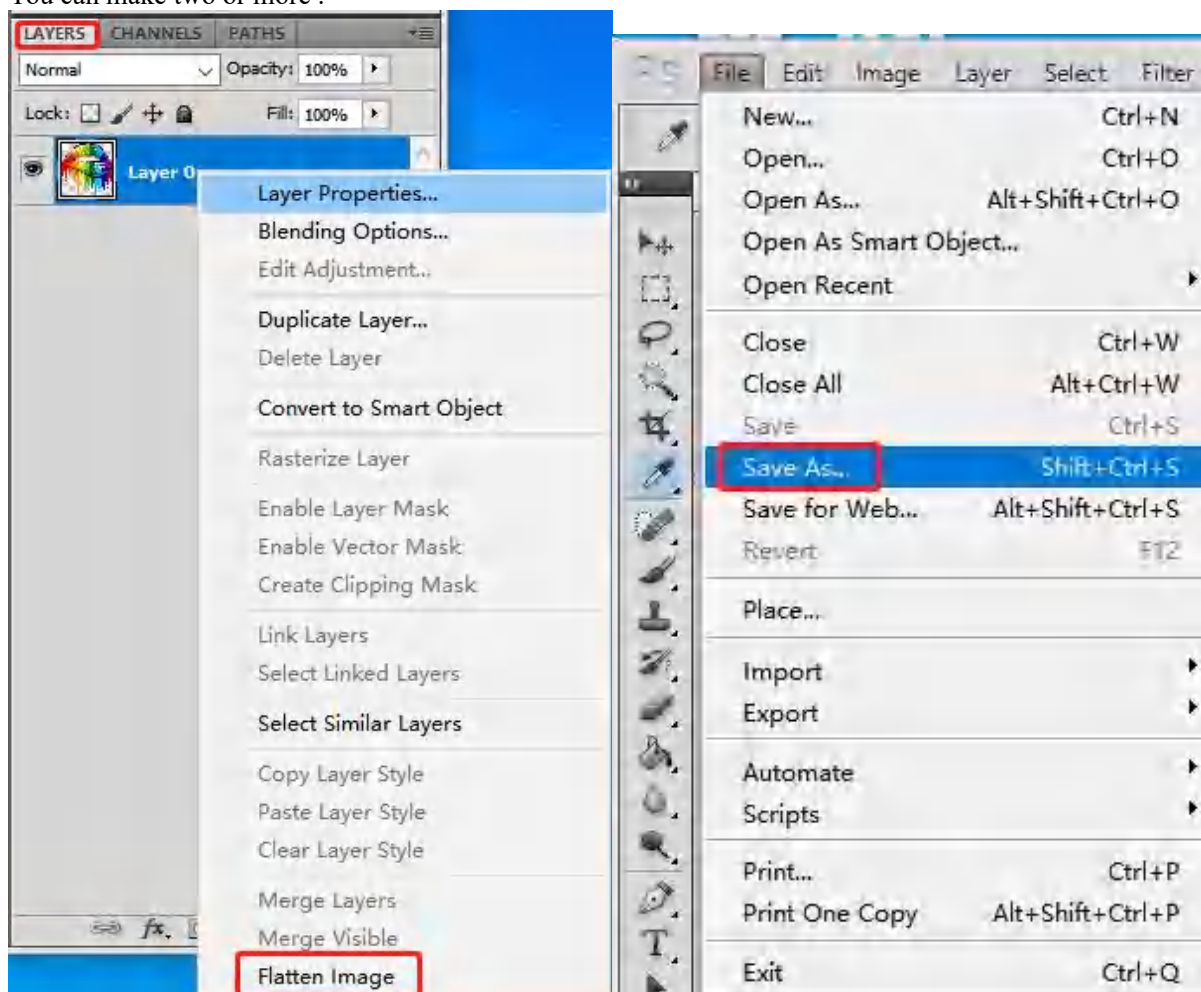
5.7.5 print tiff file (make spot color in photoshop)

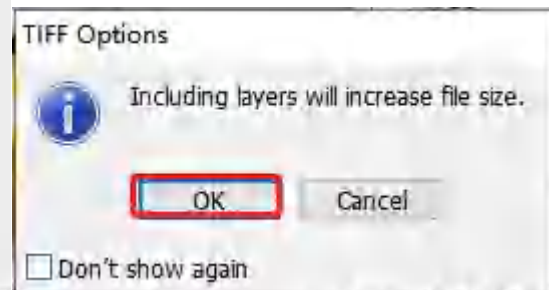
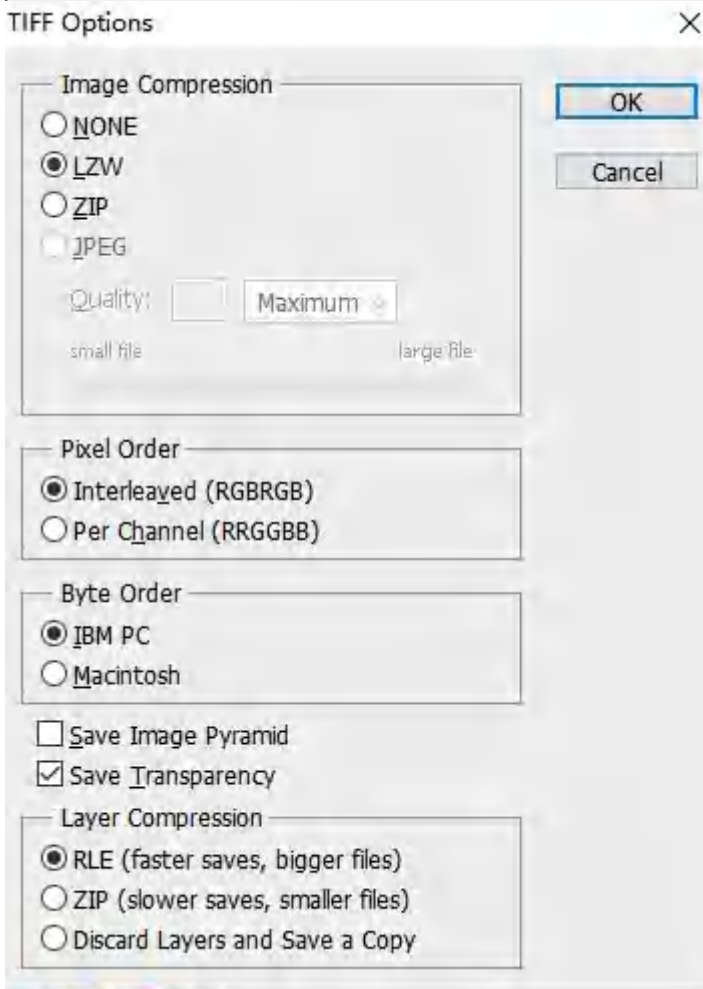
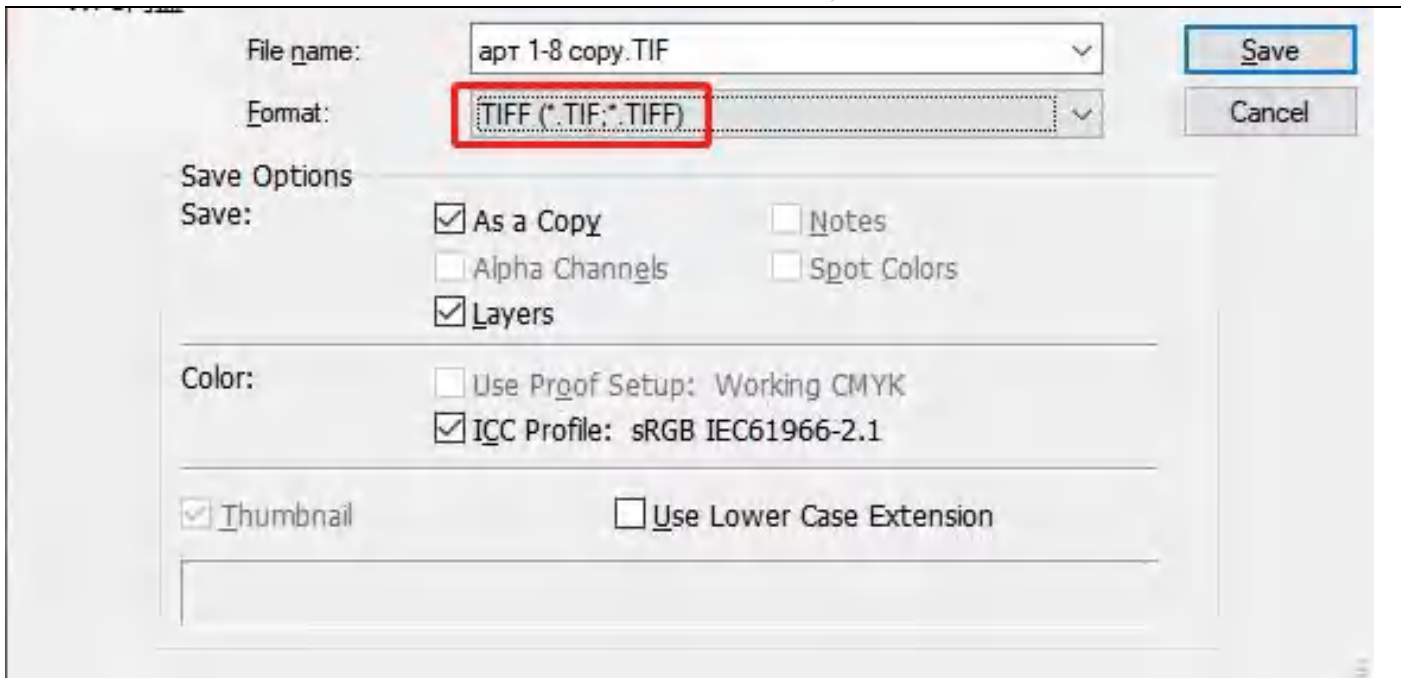




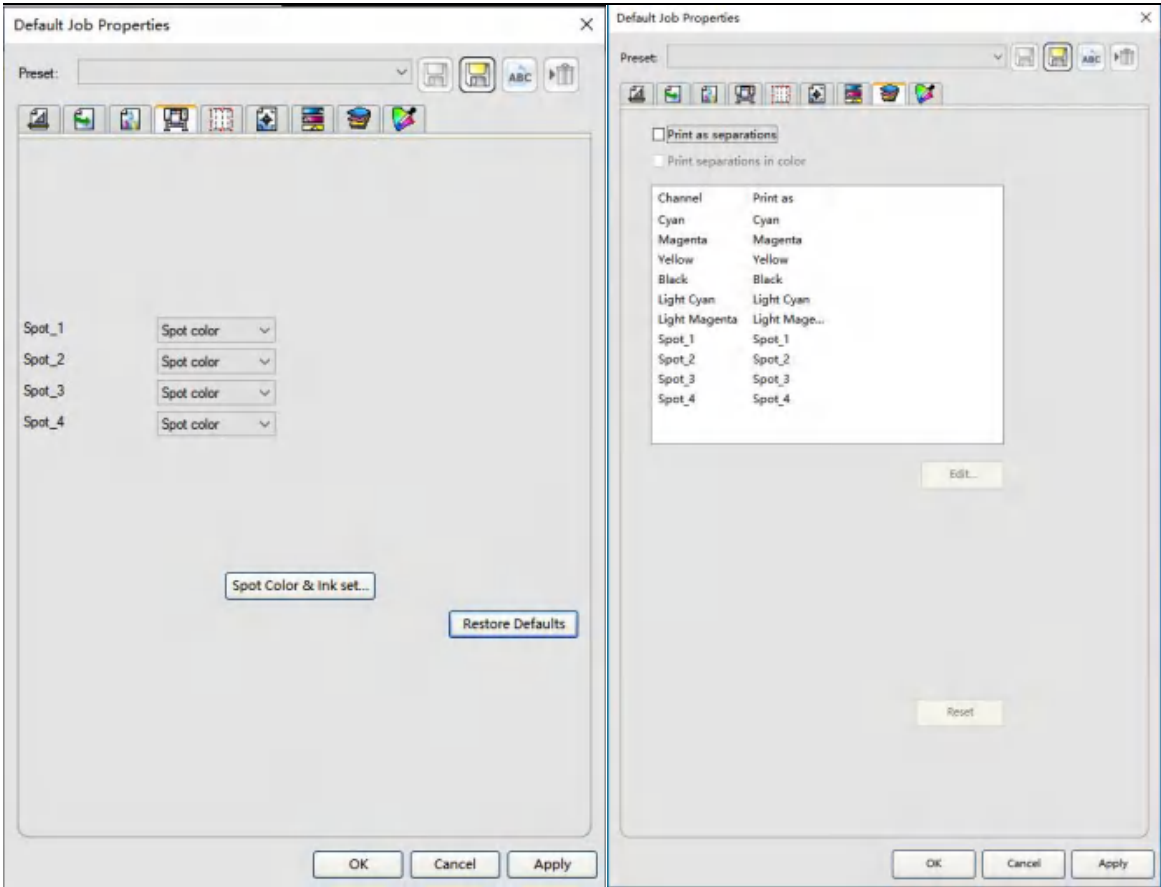
white use 1 2 . varnish use 3 4.

You can make two or more .





Open the file in the flexiprint. Spot1 and 2 set white, spot3 and 4 set varnish.



Spot 1 and spot2 for white spot3 and spot4 for varnish
make 4 spot color

Chapter 6 Equipment Maintenance and Troubleshooting

1、Note:

1. Before the UV machine is put into production, it should be equipped with voltage stabilizers and other related voltage control equipment to improve the stability and long-term operation of the machine.
2. Before starting the machine, check whether the ground wire is well grounded and whether the switches of all power supplies are in good condition.
3. The staff operating the machine should remember that before printing, they must check whether the printing height is set, whether the printhead is cleaned, and whether the printhead test is done.
4. Be careful in the preparation before printing, and the material size and plate size should correspond.
5. When a serious malfunction occurs in the UV machine, please notify the manufacturer or dealer in time and do not open the chassis by yourself to prevent accidents.
6. The ink printhead of the UV machine must not be cleaned with water, as this will directly cause crystals on the surface of the ink printhead.

2. Fault and handling:

2.1 . Reporting of large vehicle resistance error:

1. Adjust the position of the grating decoder. The upper end of the grating should be at the upper half of the U groove .
2. Replace the grating decoder.
3. The X-axis motor parameter dial is incorrect.
4. Replace the X-axis motor.

2.2 , Report ink station motor error:

- wheel, take the sensor block out of the U slot of the decoder, turn on the machine and try again.
2. Check if the ink station motor plug is loose. Try plugging it in and out.
 3. Use your hand to turn the large gear and rotate the ink station to the appropriate position so that the four centrifugal black wheels are in the same direction.

2.3 . The print head does not produce ink:

1. Check whether the left and right lights on the two layers of the trolley board are on (two lights on each side and one light in the lower left corner of the upper layer flashing, a total of five lights are on normally); if not all lights are on, check whether the HV fuse on the main board is burned out (4A); replace the trolley board.
2. Swap the left and right socket positions on the trolley board. (Pay attention to the socket position of the trolley board, the upper UP end should be plugged on the right, and the lower DOWN end should be plugged on the left)
3. After cleaning the printhead, place white paper under the printhead to see if there is any flashing.
4. Replace the new printhead.

2.4 . The printer is not online or does not print:

1. The Windows system uses the win7 64 -bit operating system.
2. Open the network local connection properties, change to automatically obtain IP, and then manually fill in the IP address 196, 12, 0, 188
The mask is 255, 255, 255, 0.
3. Check the network print cable and the motherboard socket. Use ping 196, 12, 0, 188 to check the connection between the computer and the machine.

4. Reinstall the printing software or Windows system.

5. Check the network printing cables and sockets connected to the main board and the car board.

2.5 . Printing software cannot be opened:

1. Turn off the anti-virus software on your computer.

2. Reinstall the printing software.

2.6 . The printhead test has severe disconnection:

1. Use manual ink suction for 5 seconds, then use automatic cleaning twice, and print the printhead test to see the effect.

2. Remove the fixing screws at the ink station position, so that the manual ink station position and the printhead surface are in close contact to achieve smooth ink absorption.

3. Replace the ink printhead.

2.7 . There is a pause in printing:

1. Replace the win7 64 -bit operating system.

2. Ping 196.12.0.188 to see if TTL= or TTL=128. If it is 128, there will be pauses. You can replace the independent network card .

3. Equipment maintenance list and equipment maintenance details:

Serial number	Maintenance items	Daily Maintenance	Weekly Maintenance	Monthly Maintenance	Annual maintenance
1	Ambient temperature 20°C-30°C Ambient humidity 40%-60%	●			
2	The machine printing platform is clean, free of debris and dust	●			
3	Clean the ink stack, ink printhead and ink scraper	●			
4	printhead maintenance, power on/off printhead test status	●			
5	Check that the grating and the reading head are clean and dust-free		●		
6	Check the ink path and circuit of the drag chain to see if the ink tube is damaged.		●		
7	Device sensor check		●		
8	Clean the grease and dust on the transmission belt		●		
9	Clean the dust on the trolley, platform and machine		●		
10	Apply lubricating grease to moving parts			●	
11	Motor drive parts maintenance			●	
12	Regular replacement of ink sac, ink printhead and filter			●	
13	Regular calibration of equipment level			●	
14	Equipment fastener inspection				●

1. Maintenance items before and after printing

- Check the status of the printhead before printing: print the printhead test strip, and use automatic or filling cleaning methods to make the printhead status normal;
- Check the status of the printhead after printing: print the printhead test strip, and use automatic or filling cleaning methods to make the printhead status normal.

1. Daily inspection and maintenance items

- Maintain a clean working environment: clean the workplace, make it tidy and dust-free;
- Maintain working environment temperature and humidity: temperature 20°C~30°C, humidity 40%~60%;
- Keep the machine clean and hygienic: ① Clean the chassis and frame: remove debris, dust, ink stains and other contaminants from the machine base, crossbeam frame, and ink supply box; ②) Clean the dust, ink stains and other debris on the equipment; ③ Clean the platform surface: wipe off the surface ink stains and debris; 4) Clean the printhead scraper: scrub with cleaning fluid to remove the accumulated ink and dried dirt on its surface; 6) Clean the surface of the ink stack: scrub the surface of the ink printhead and the surrounding ink with distilled water or cleaning fluid to remove the dried accumulated ink and foreign matter; ⑥ Remove waste ink: Check whether the waste ink guide groove and waste ink tube of the ink stack are blocked, and dump the waste ink in the waste ink barrel in time.
- Check the ink level in the ink bottle and add ink in time to prevent the ink from running out and causing the printhead to break; ※Note: Please pay attention to the shelf life of the ink
- Moisturize the printhead before shutting down: After confirming that the printhead is in good condition, move the printhead to the top of the ink stack and put the ink printhead in the normal moisturizing position.

Weekly maintenance content

- Clean the grating: Check for oil, dust and other contaminants. If necessary, wipe it with a non-woven cloth when the power is off.
- Guide rails and sliders: Check whether there is any abnormal sound when the printhead carriage moves, clean the foreign matter on the guide rail edge surface and evenly apply grease on the surface for lubrication

2. Monthly maintenance items

- Check the ink pump and ink tube for wear and tear, and replace if necessary;
- Check the ink printhead and ink bag for damage and leakage, and replace them if necessary; · Check the filter for blockage, and clean or replace it in time.

3. Quarterly maintenance items

- Clean the main ink supply bottle and replace it if necessary; · Check the ink printhead and ink bag for damage and leakage, and replace them if necessary;
- Clean the ink supply system pipeline: Check the wear of the ink supply pipeline (especially the pipeline inside the drag chain), and replace it if necessary;
- Replace the filter: Replace when necessary;
- Inspect the overall circuit: Check whether the lines and connectors are loose or damaged, and tighten or repair them in time.

4. Maintenance items before decommissioning

- Within 3 days of non-use: ① Check the status of the printhead: print the printhead self-test test strip to ensure that the printhead is in good condition and keep the shutdown test strip; 2) Cut off the power

supply and clean the entire machine.

●Maintenance items when out of service for more than 3 days: ① Check the status of the printhead: print the printhead self-test test strip to ensure that the printhead is in good condition and keep the shutdown test strip; ② Add an appropriate amount of printhead moisturizing liquid (matching the ink) to the ink suction printhead, align the printhead with the ink suction printhead, ensure that the ink suction printhead and the printhead have good contact, and avoid prolonged contact between the printhead surface and the air to dry the printhead surface; ③ Clean the moving parts, and apply lubricating oil to the bearings and guide rails; ④ Cut off the power supply and clean the entire machine.