

A3UV DTF Manual



Please read this manual carefully before starting operation

The picture of the equipment is for reference only

please refer to the actual product

Catalogue

1. Machine structure diagram:	5
2. PhotoPrint software installation steps:	6
3. PhotoPrint software settings:	10
4. Device switch key description:	13
4.1 Description of LCD Panel Keys	13
4.2 Power socket, host switch, UV lamp adjustment knob, etc.....	14
5. PC terminal setting and control software setting.....	15
5.1 Setting the computer network IP	16
5.2 Set calibration tool IP	16
5.3 Vertical calibration	18
5.5 Double-head horizontal spacing calibration	18
5.6 Double-head vertical distance	18
5.7 Step calibration	18
5.8 Printing function setting	19
5.9 Advanced setting function	19
5.10 Import and export of calibration parameter.....	20
5.11 PC keypad	20
5.12 Flash jet setting during printing	20
5.13 uv lamp setting	20
6. Menu structure of control panel	20
6.1 Menu tree diagram	21
6.2 Menu description	21
6.3 Menu description when printing	21
7. Board card interface description	24
8. Nozzle structure, installation position and installation sequence of ink bag.....	26
9. Matters needing attention.....	27
10. Faults and handling.....	28

UVA3 double-head tablet machine installation notes

1. The computer operating system uses Windows7/Windows10, 64-bit system. The network card uses an independent 1000M network card.
2. Install an outdoor ground wire to ensure that the ground wire of the input power supply is within 0 to 10V between the neutral wire.
3. Equipped with 3500-5000V regulated power supply.
4. Operating environment: The room temperature is 20-28° C, and the humidity is 40%-60%.
The work area is 3.5 square meters.
5. No electricity, observe whether there is any tilt between the left side of the machine trolley and the table. Power on to see the reset situation. Add pure water or coolant to the UV light box.
6. Install printing software and control center software, change computer IP address 196, 12, 0, 188, subnet mask 255.255.255.0, online tablet.
7. Install nozzles, ink sacs, apply ink, and absorb ink. Do not insert the nozzle cable in the position of the trolley board. Turn it on again and take a picture of 20x10CM online to see how the machine is running and the UV light is switched on and off.
8. Shut down and plug in the nozzle cable of the trolley board, and check the nozzle test of the nozzle. Adjust the step, double-head vertical, double-head horizontal, two-way.
9. Sharp objects such as utility knives, scissors, needles, etc. are not allowed to be placed on the machine platform.

The debugging steps of UVA3 double-head flatbed machine

First. Observation of the machine

1. After opening the packing box, observe the space between the machine platform and the bottom of the trolley frame (1.8MM) when the power is off; whether the position of the grating and the grating decoder is deviated; whether the ink tube behind the ink cartridge has creases or creases .
2. Use a multimeter to measure the power supply provided by the customer, and measure the voltage between the neutral line of the power supply and the casing of the machine, and set the gear to the AC gear. If the voltage between them is greater than 10V, a 3000-5000VA voltage stabilizer should be equipped. Connect the outdoor ground wire and use 1 meter of steel to hit the ground underground.
3. Check the accessories box to see if the main accessories are complete.

Second, the operation of the machine

1. Power on to see if the machine reset is normal. Adjust the origin of the ink station, the position of the wiper nozzle, the height of the wiper blade, and the height of the sealing nozzle.
2. Apply the ink, install the copper band, the ink bag adapter, the ink bag, and the nozzle, use a syringe to draw the ink bag and manually fill the ink and insert the ink bag.
3. Plug in the nozzle cable of the trolley board, turn on the ink manually, automatically clean, print the nozzle test, and observe the nozzle status.

Third, the debugging of the machine

1. Install the printing software and control center, set the curve of the printing software, the bidirectional (30), double-head horizontal spacing calibration (1364), step calibration (18097), vertical nozzle (6), UV lamp in the control center The basic

parameters (right light right to left open offset (-120) right light right to left off offset (-220) left light right to left open offset (-120) left light right to left off offset (- 180) Left to right overall offset (60)).

2. Calibration and debugging: step-by-step calibration, vertical calibration, vertical calibration of white color print heads, double-head horizontal calibration, and two-way calibration.
3. Online drawing to see if the machine's trolley has stopped at the left and right ends. If so, replace the operating system windows7 64-bit pure version, or replace the independent network card.

Fourth, the application operation of the machine

1. The application of training operators, how to replace ink nozzles, ink sacs, nozzles, and ink pumps; how to judge when there is a failure (the parts of the machine should be unified with our name), how to clean the nozzles, and print test strips. How to align the ink suction position, the height of the wiper blade, the position of the wiper nozzle, and the height of the sealing head.
2. The operation steps of the printing software; open the picture to be printed (JIP, TIFF, PDF, PSD,), how to change the size of the picture, how to set the spot color, how to print all white, understand the color white and white color printing methods and Print position.
3. Print a copy of the same picture for comparison in one-way and two-way directions.

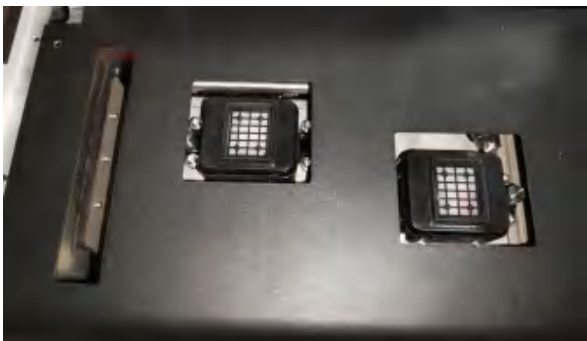
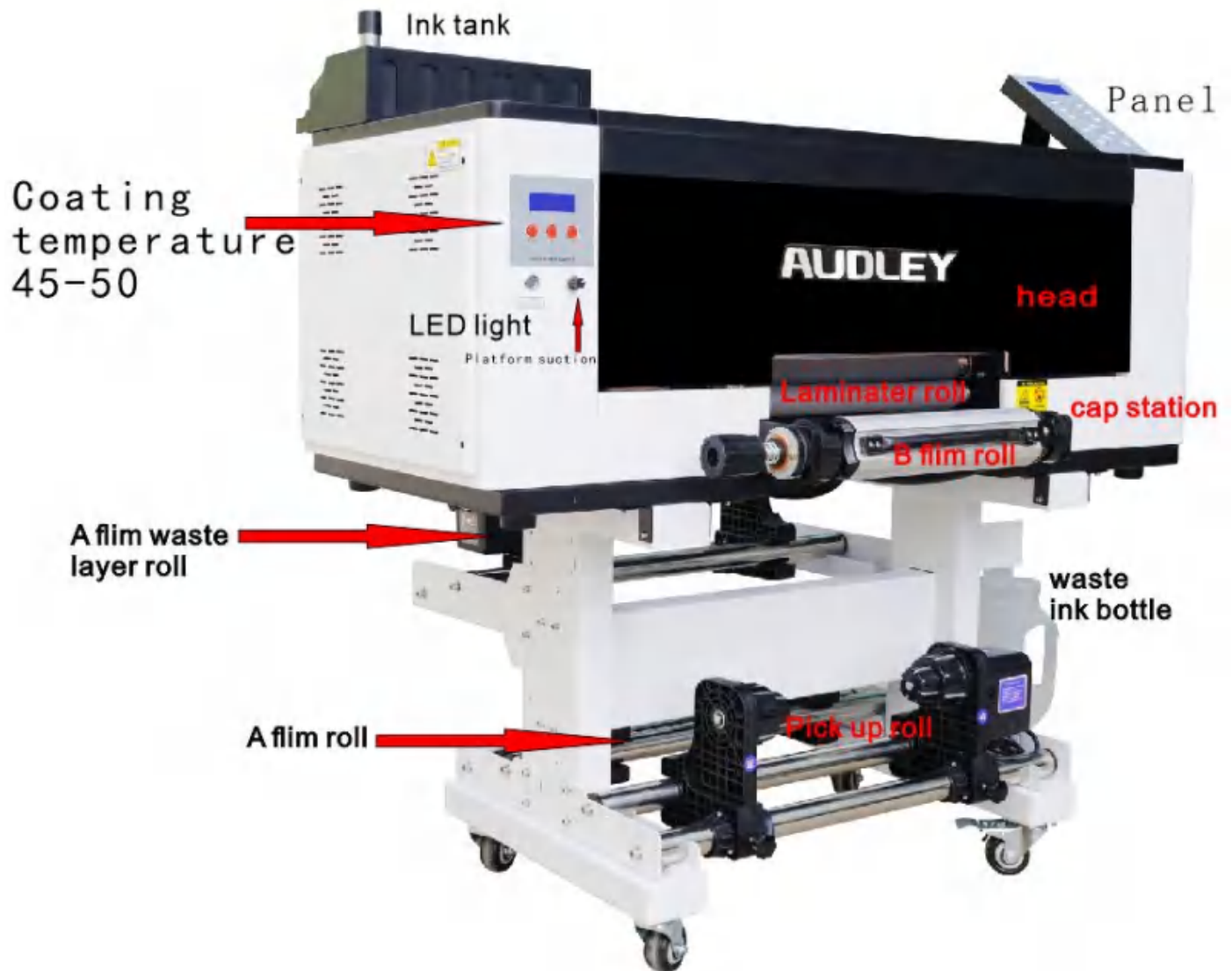
Fifth. Installation and setting application of printing software

1. Follow the installation steps and settings in the operating instructions

Sixth. actual machine applications and common phenomena

1. Follow the installation steps and settings in the operating instructions

1. Machine structure diagram



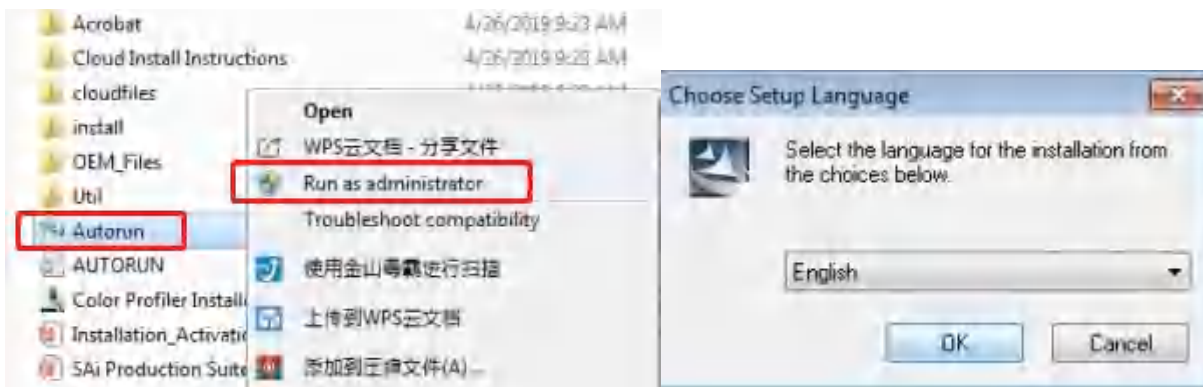
Wiper

Copper

2. PhotoPrint software installation steps:

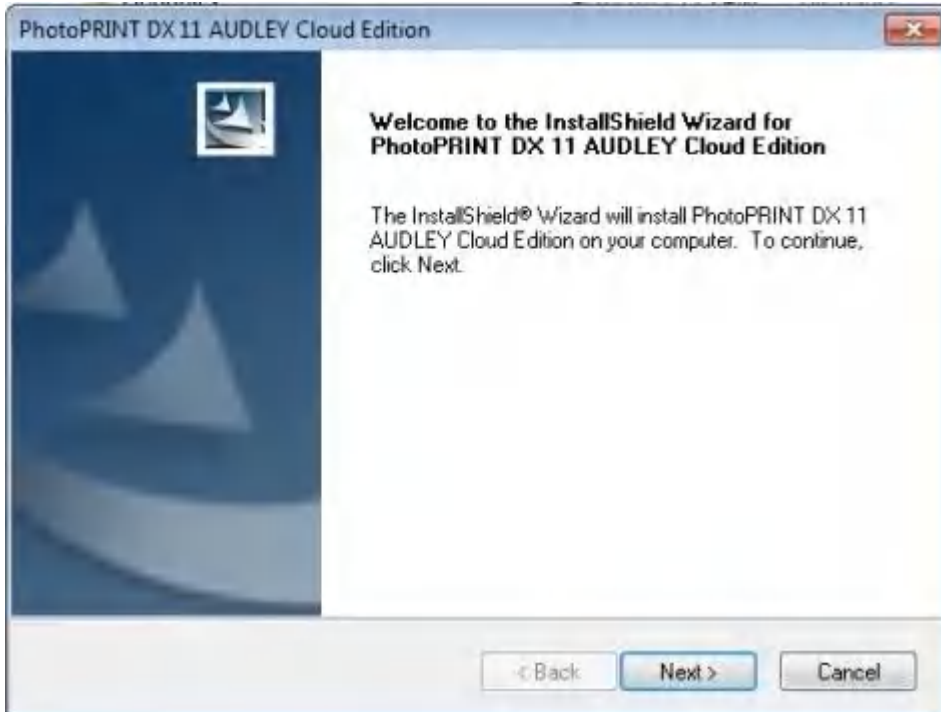
1. Open the photoprint directory  and double-click the icon to run the installer. Plug the dongle into the USB port.

2. Appear



You can select the language and click OK.

3、Appear



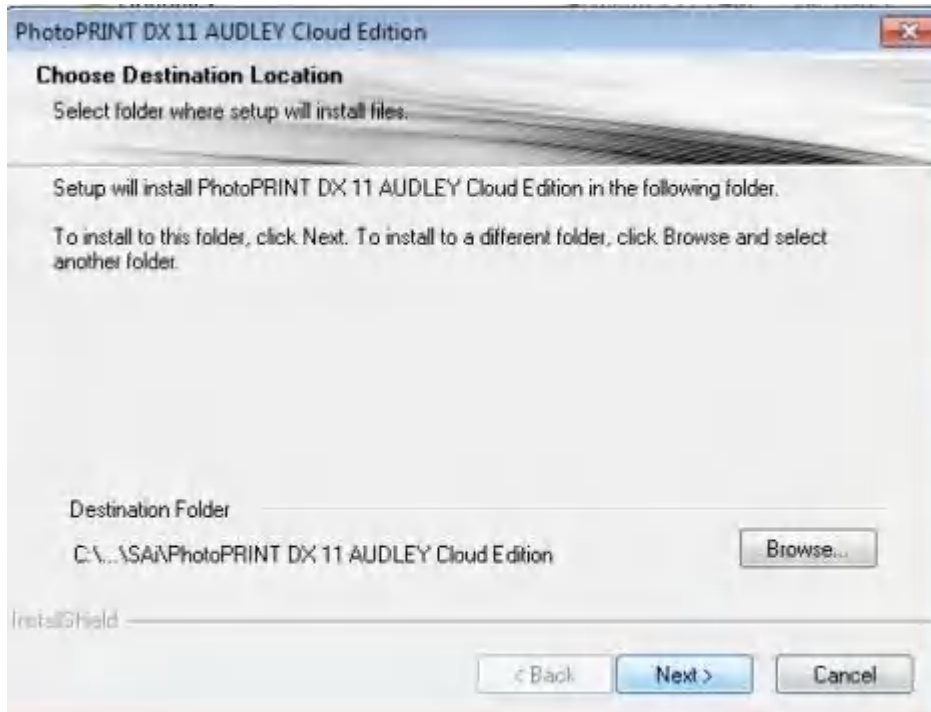
Click Next on this interface.

4、



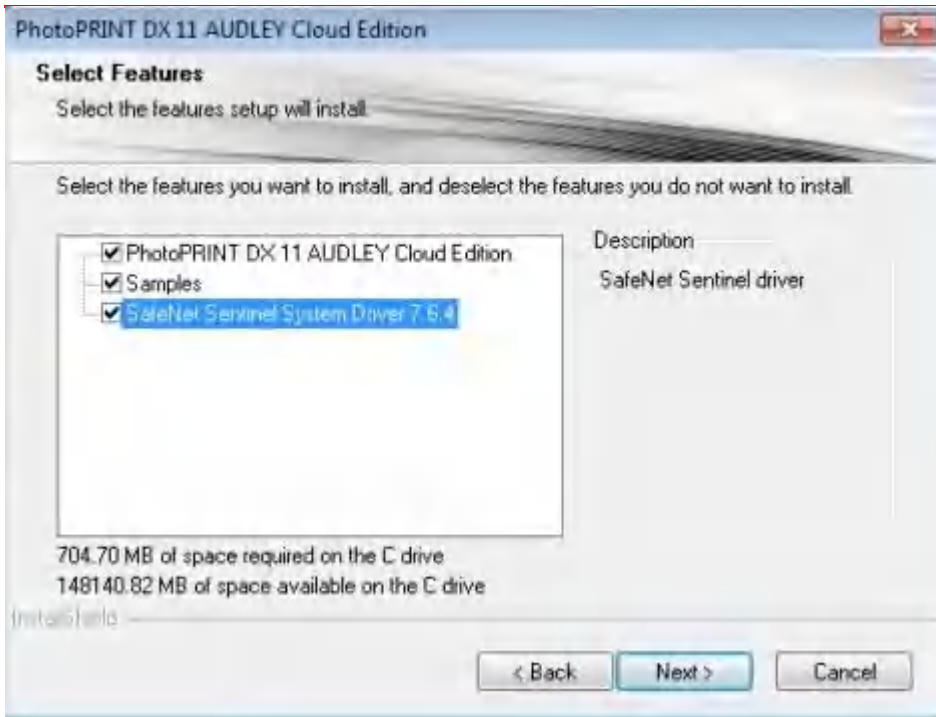
Click the circle in front of I accept the terms in the license agreement and click Next.

5、



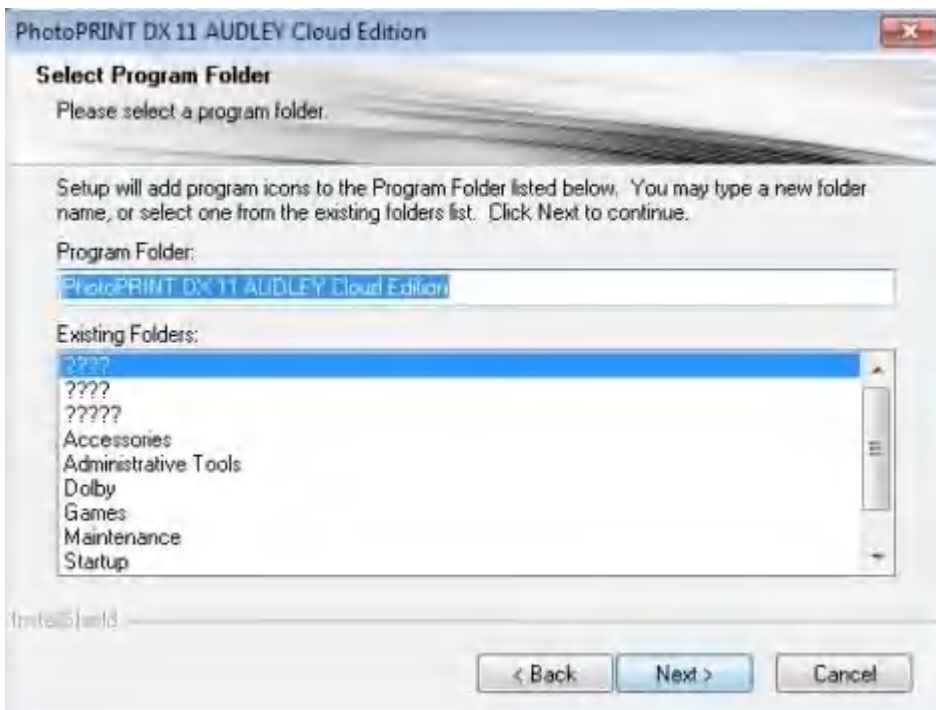
Can choose to browse In which drive letter to install, click Next.

6、



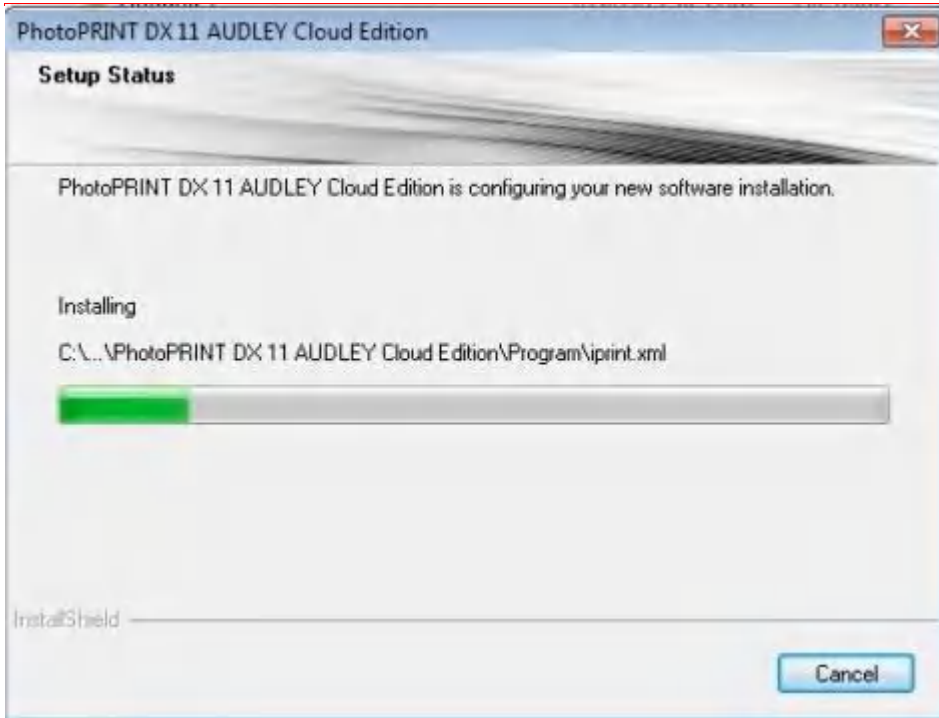
Choose “SafeNet Sentinel System Driver7.6.4 “, Click Next.

7、

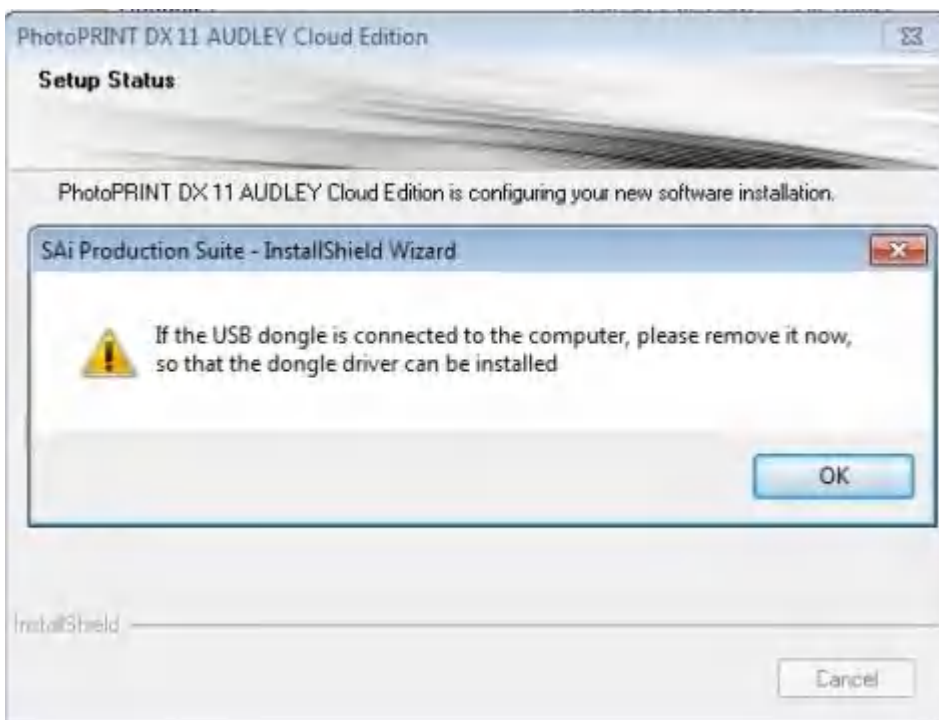


Click Next.

8、

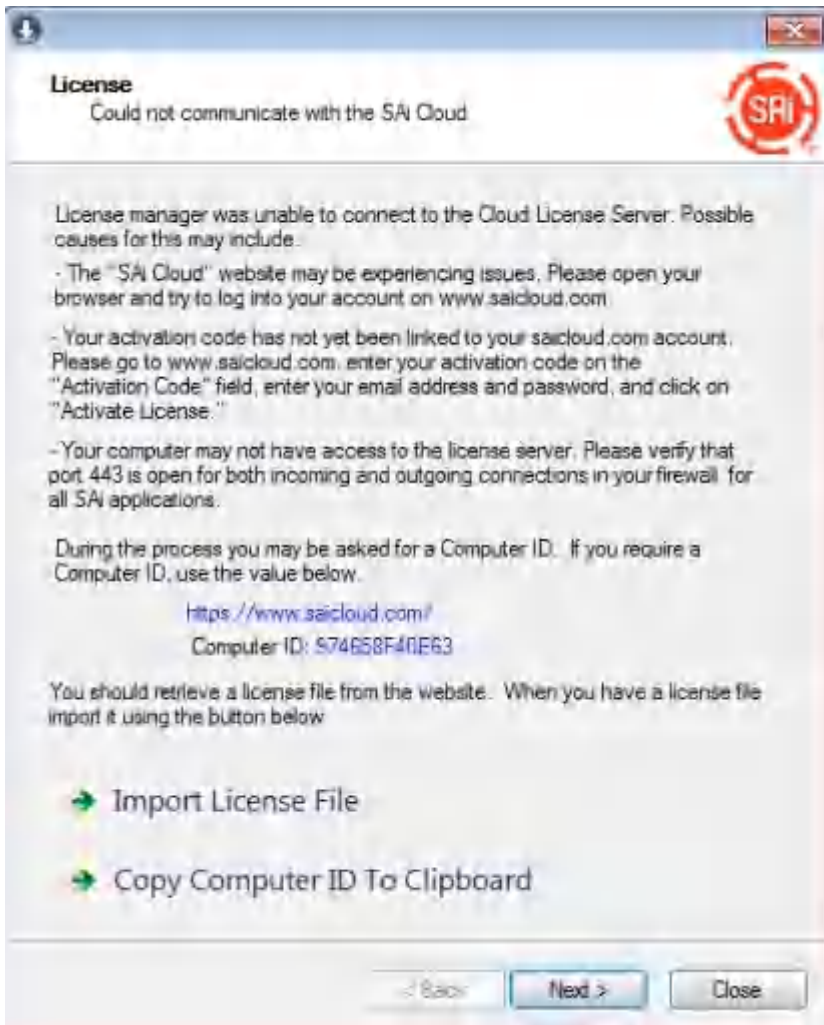


9. **Unplug the dongle and click OK** When the following interface appears.



Remove software key.click ok. If the activation window is displayed, you can directly enter the activation code behind the software.

10.If the following window appears, follow the steps to register



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

Current Install

Computer ID: 0838933

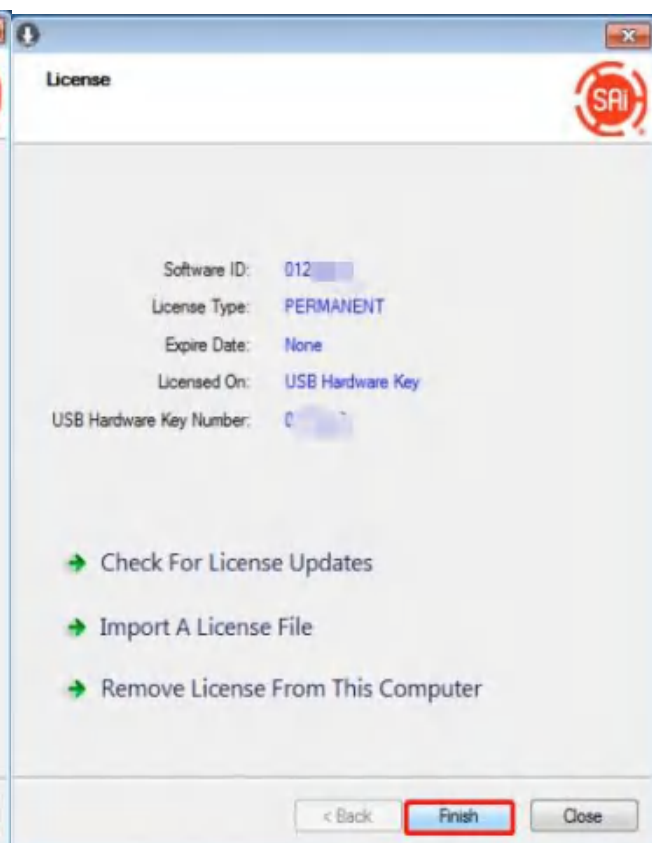
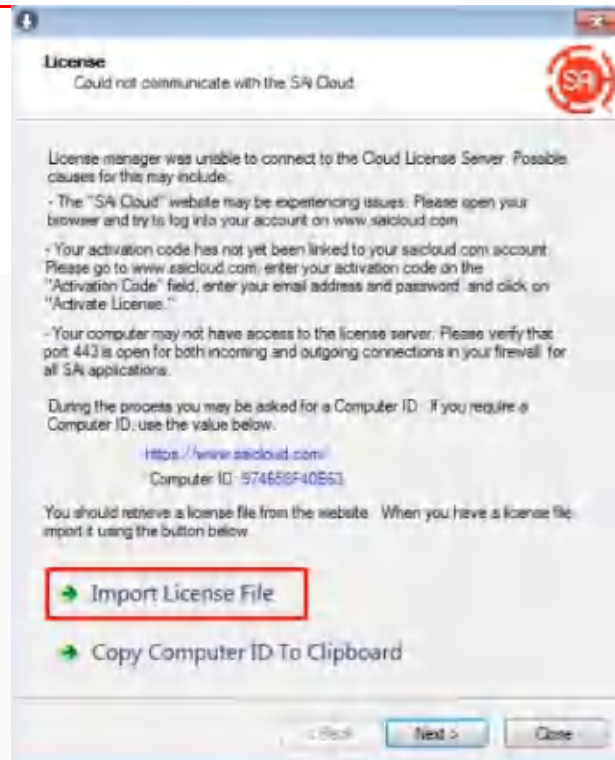
Computer Name:

User Name:

May 27, 2019

Download Now

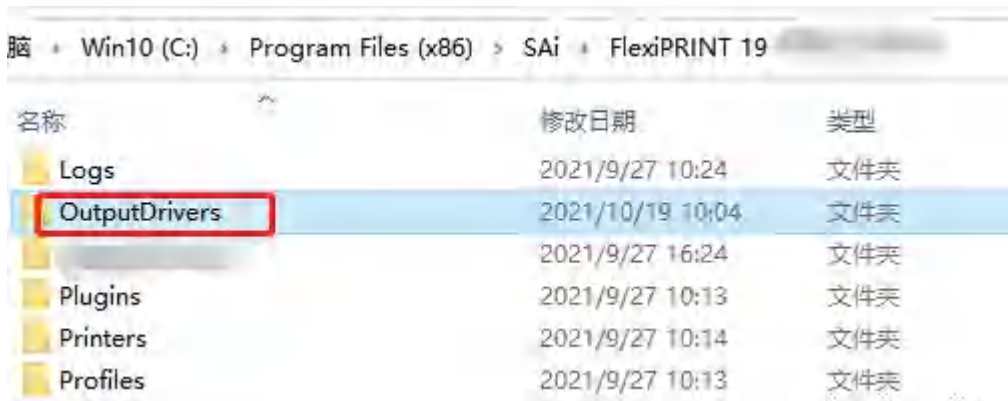
Download License



Click Finish. wait icon appears on the desktop.

3、PhotoPrint Software settings:

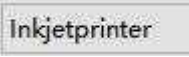
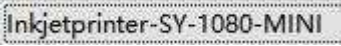
1、Click the subdirectory of the installed software.( right click and open file location. Then click top menu ).
Select the OutputDrivers folder and delete,



Copy outputdrivers folder and paste in the FlexiPRINT 19 folder



2、Right click this icon on the desktop() and run as administrator

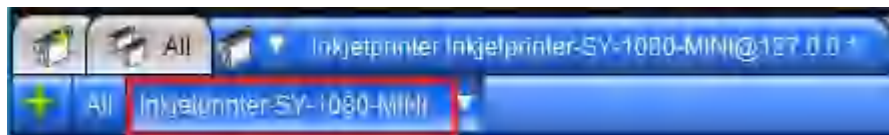
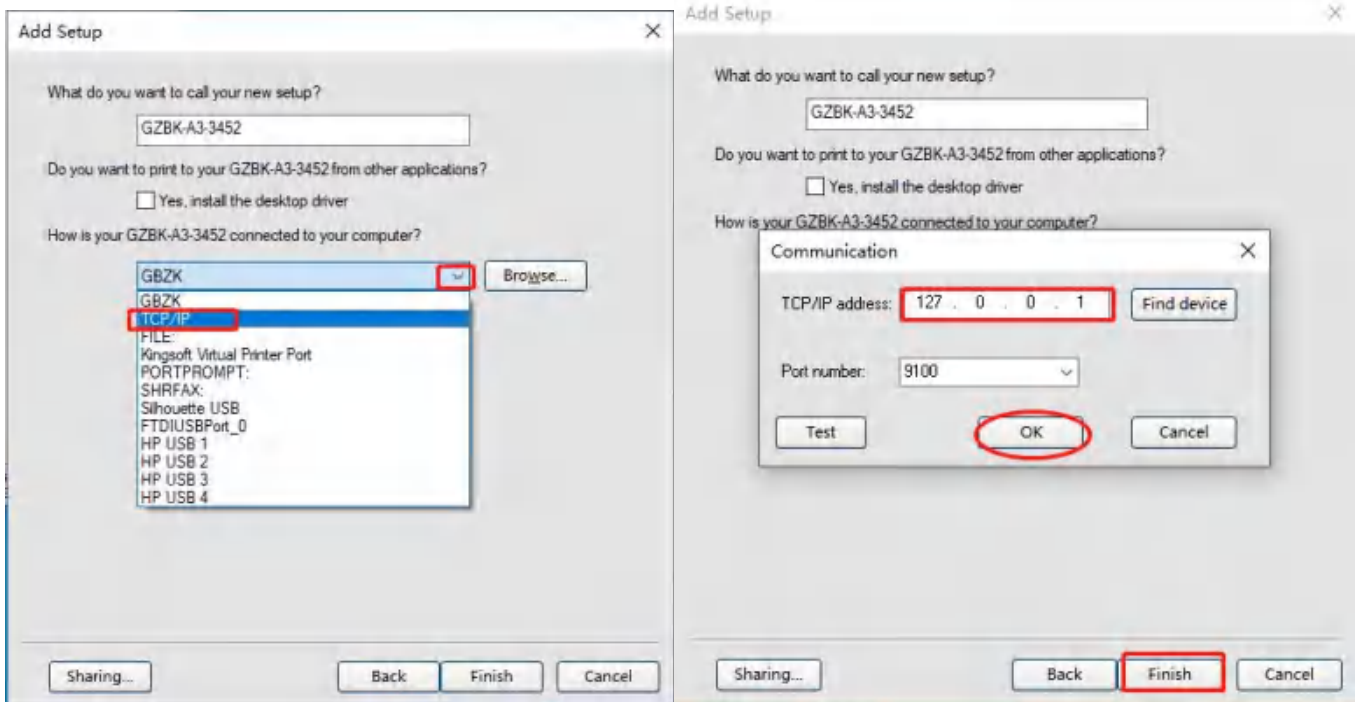
3、Click  and  in the figure below, and click Next.

Choose a device

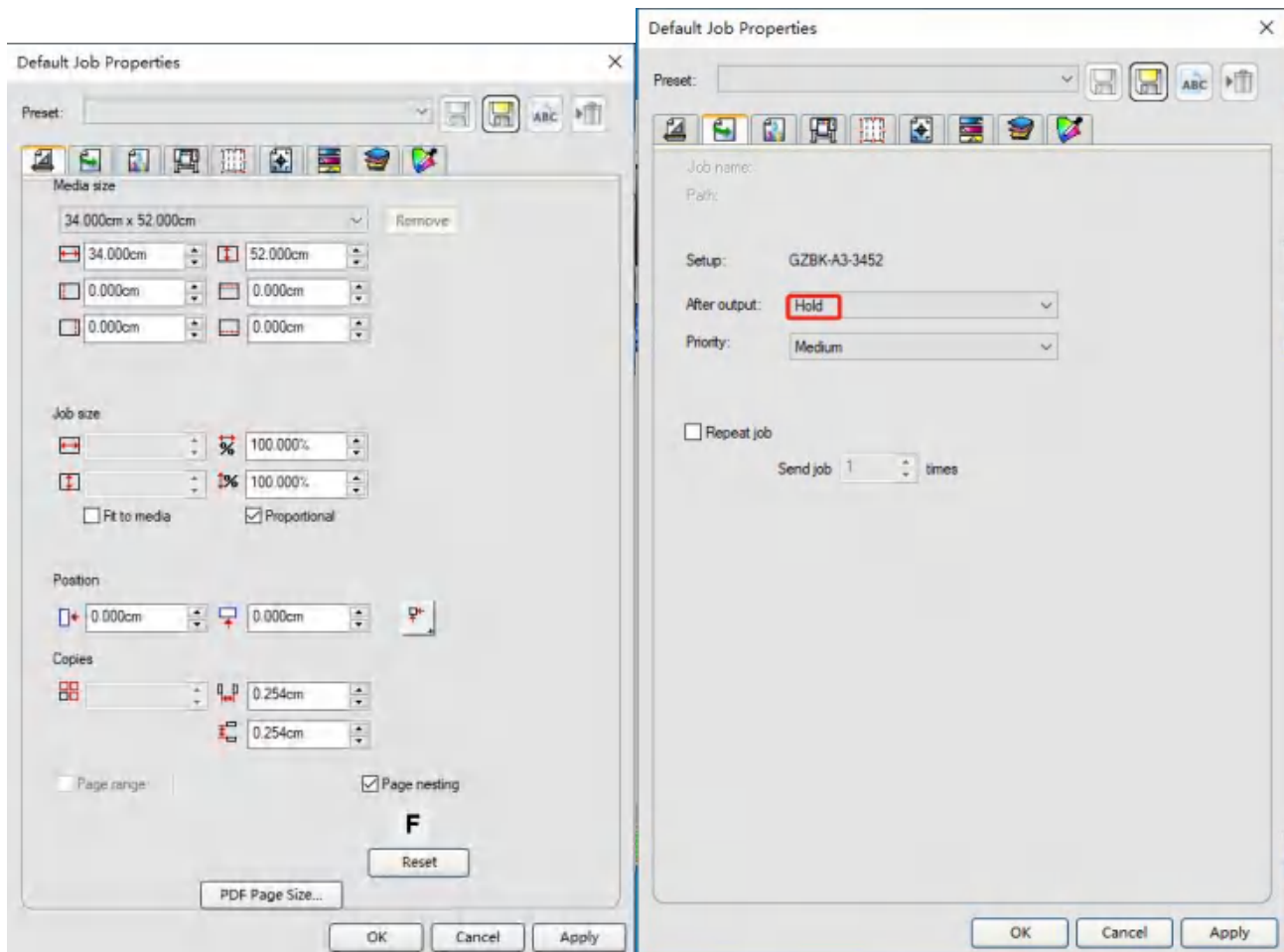
What is the brand name of your color printer?

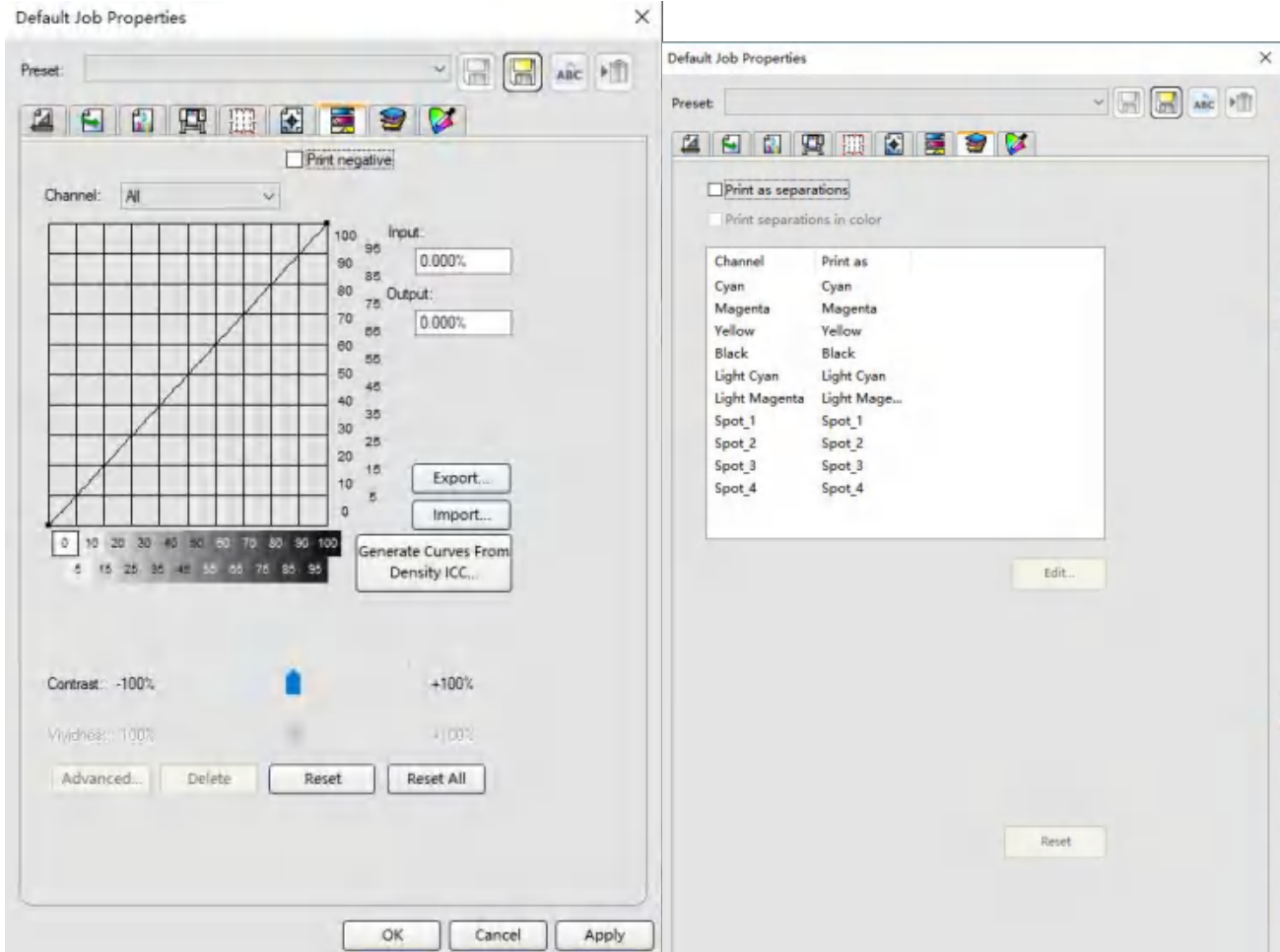
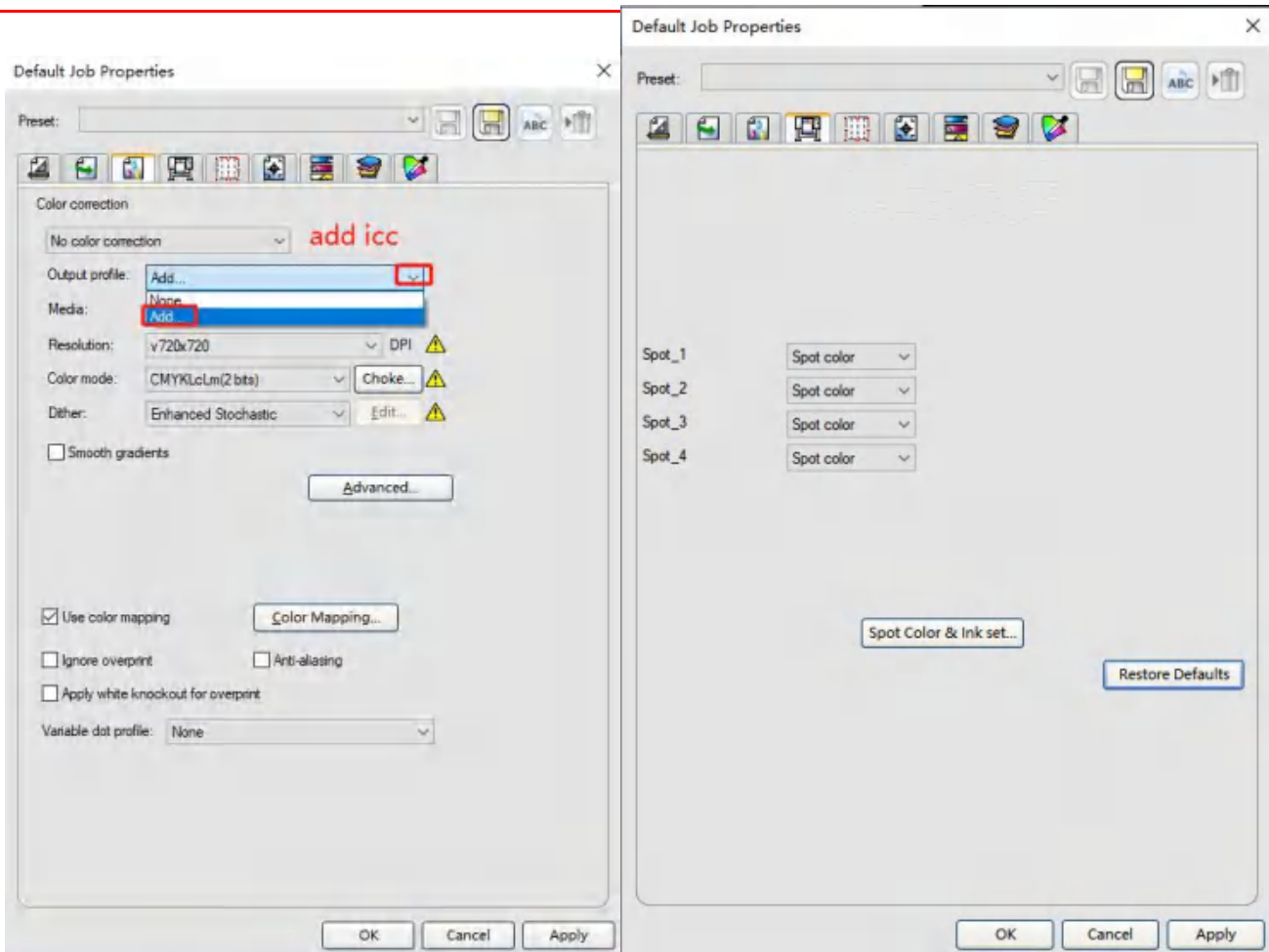
What is the model name of your Inkjetprinter?

4、



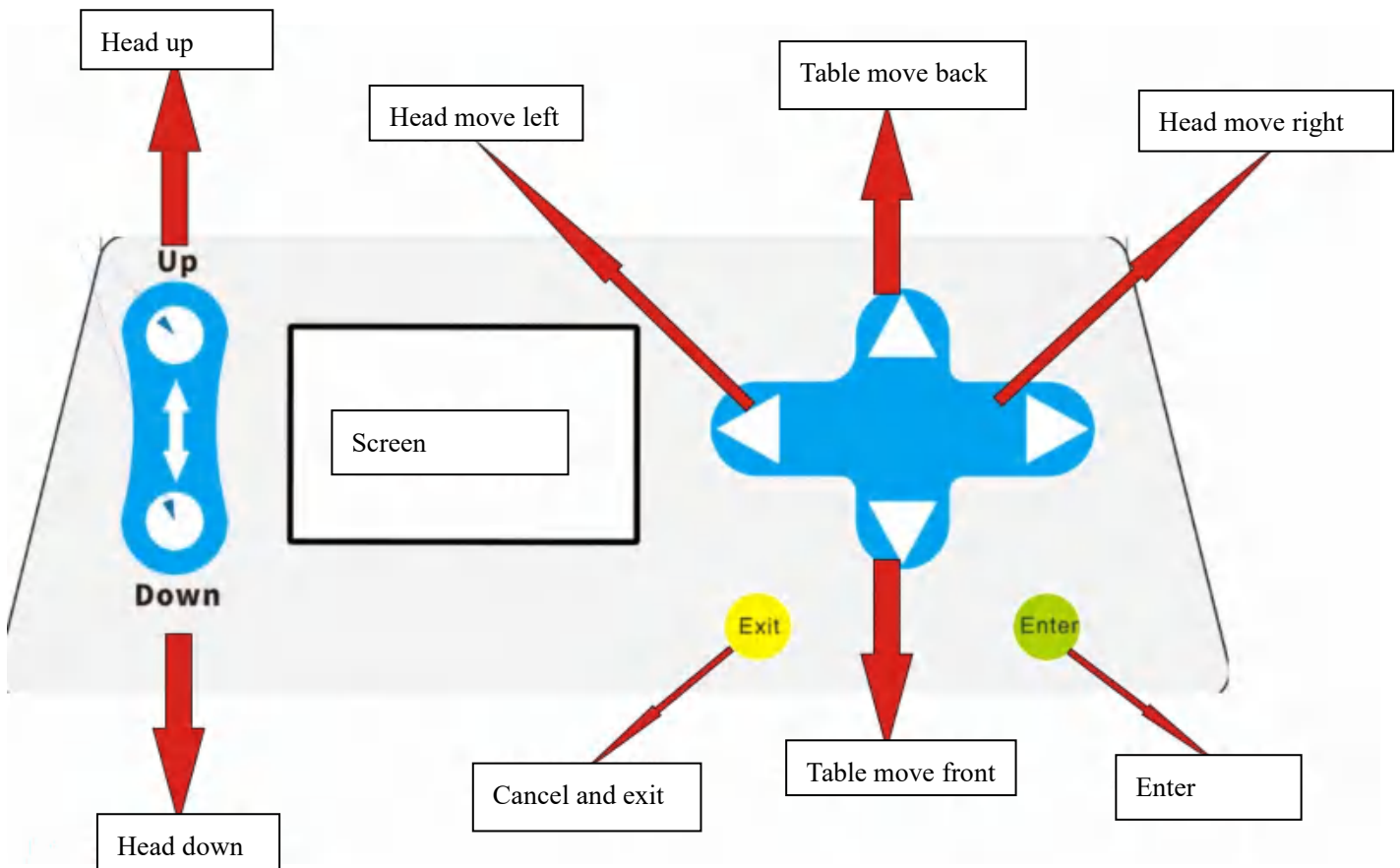
6、Double click





4、Switch button description::

4.1 LCD panel button description



4.2 Power interface, host switch, UV light adjustment knob, network interface .





UV lamp power adjust(used 60 normally)



Network interface



Ink tank Switch

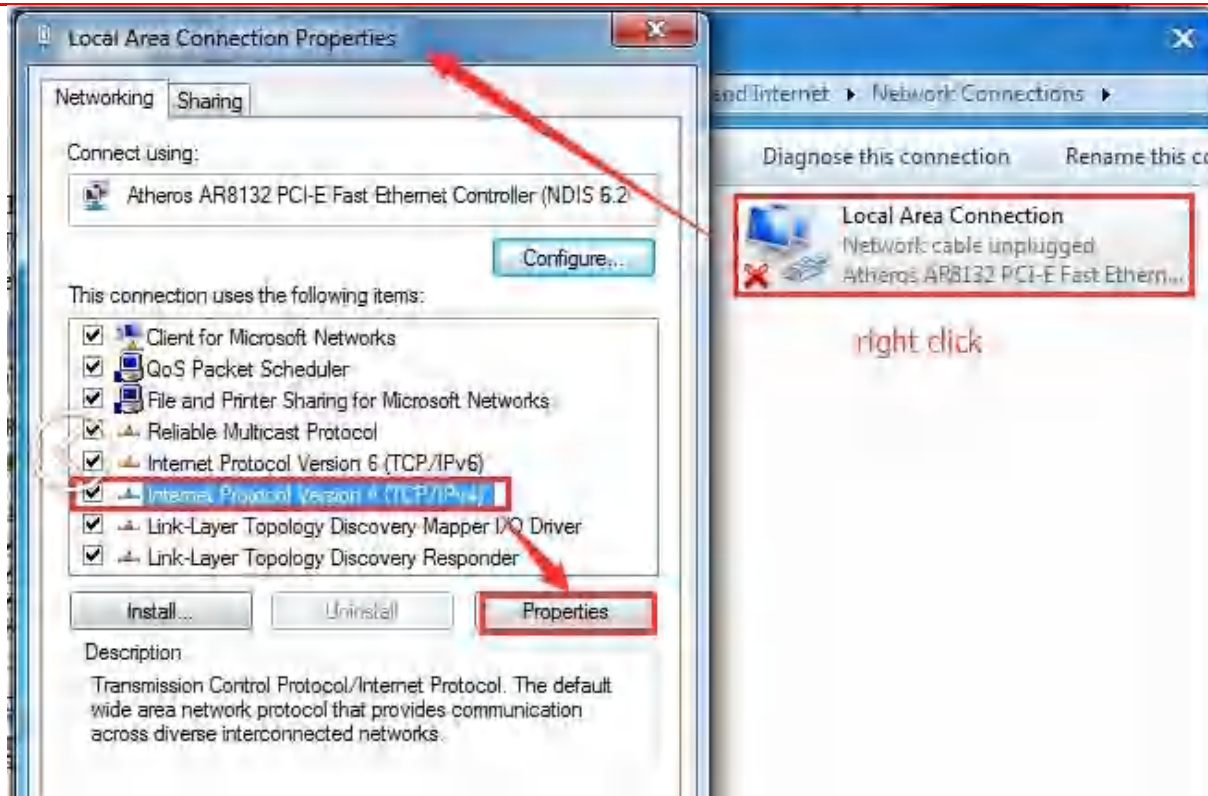


Low ink warning light

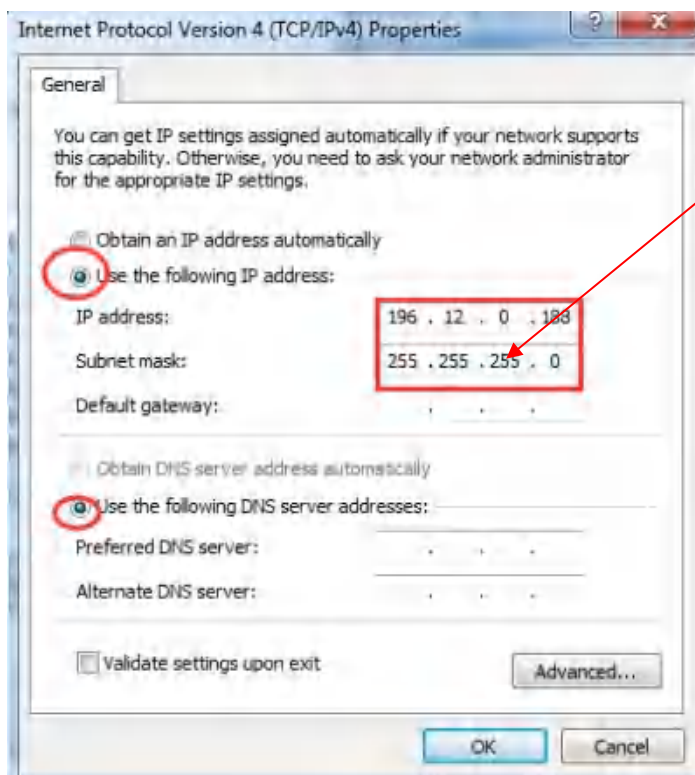
5、PC settings and control software settings

5.1Set computer network IP

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

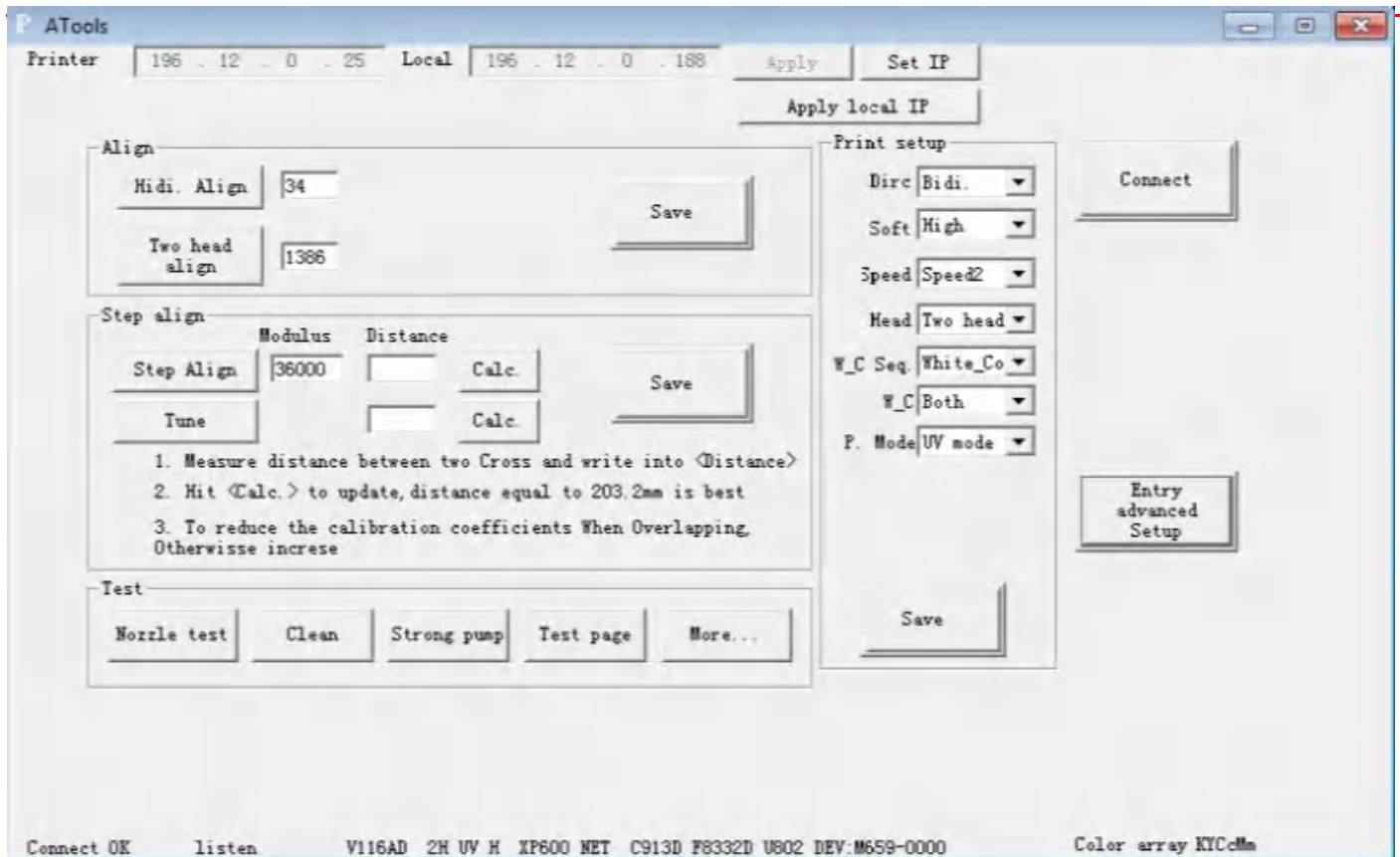


Find (TCP/IP) or (TCP/IPv4) Click and find vision below.



Use the IP as the picture
Show
196.12.0.188
255.255.255.0

Online Software Interface



5.2 Setting calibration Tools IP

Open setting calibration tools

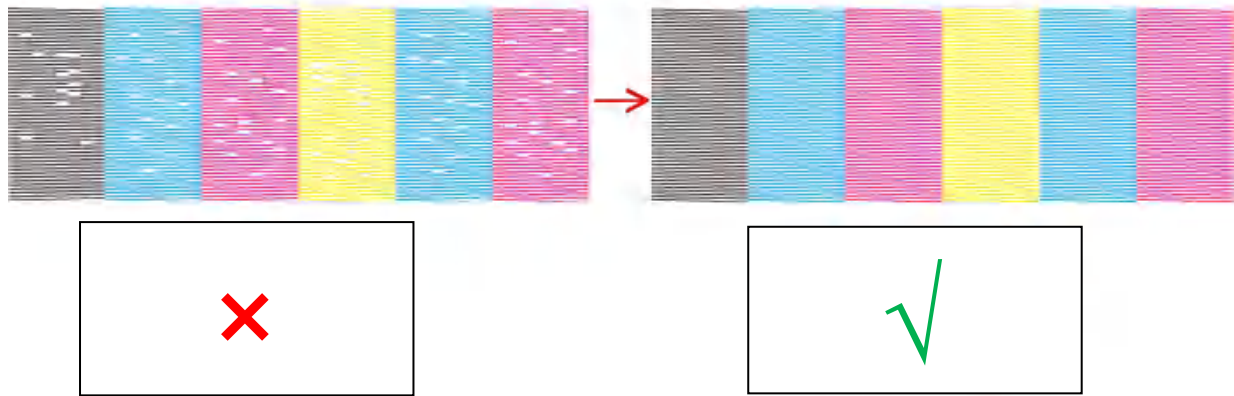
Click "Set IP address" button, input 16753 in the password box that pops up. Change printer IP to 196.12.0.25;

Change the local IP address to 196.12.0.188. The local IP address is the default IP address of the board.

If the user - defined IP address has been set in the control board, the local IP address is changed to a user-defined IP address. After entering printer IP and local IP, click "Apply" button and plug in the network cable to connect computer and board, click "connect" button, you can use calibration software to set parameters and operation.

First calibrate the vertical calibration of the print head (physical calibration during print head installation), click "More" in the "Maintenance" column.

Note: check the print status of the head first after starting the machine, press ok to enter equipment Maintenance - Nozzle test. If the nozzle is not in good condition, click automatic cleaning, and then calibrate after measuring the better ink state of the nozzle.



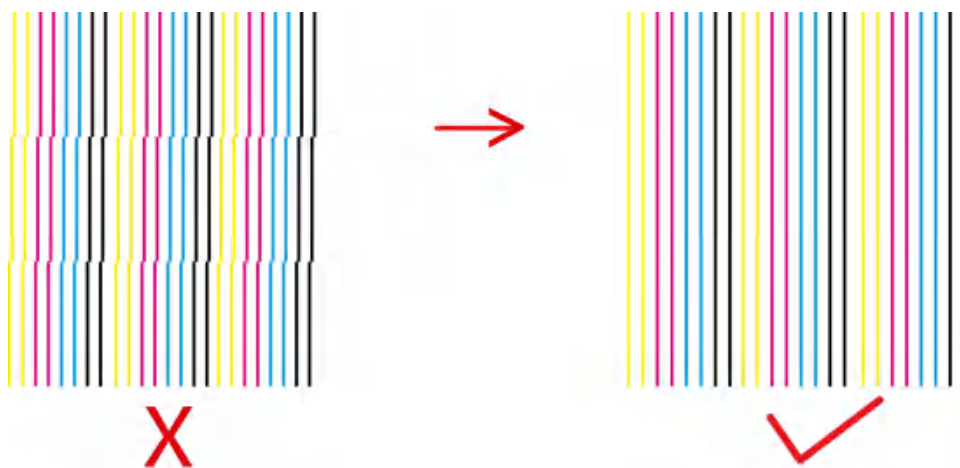
5.3 The vertical calibration

Vertical calibration, calibrate the physical horizontal position of the print head

Open Calibration Tools, click “more” button after online, click "Vertical test" button in the pop-up interface to print the test graph.



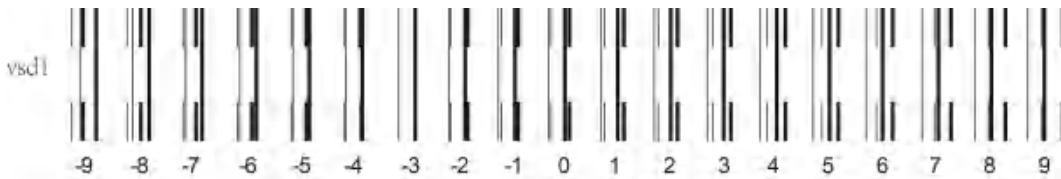
Adjust the physical position of the print head according to the printed graph so that the vertical line of the final vertical test graph is completed. As following:



5.4 Bidirectional calibration

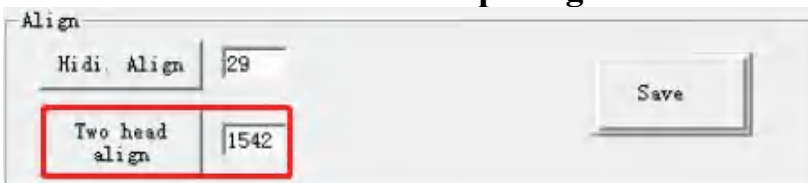


Click “bidirectional calibration” button to print the calibration graph:



Observe the printed graph, select the thick and thin lines that completely coincide with each other, add the corresponding number and the value of the bidirectional calibration area, input the calculation result manually, and then click the "Save Parameters" button. For example, the line corresponding to -3 has the best coincidence, and the calculated result is $29 - 3 = 26$, input 26 in the bidirectional calibration data area and save the parameters.

5.5 Double- head horizontal spacing calibration

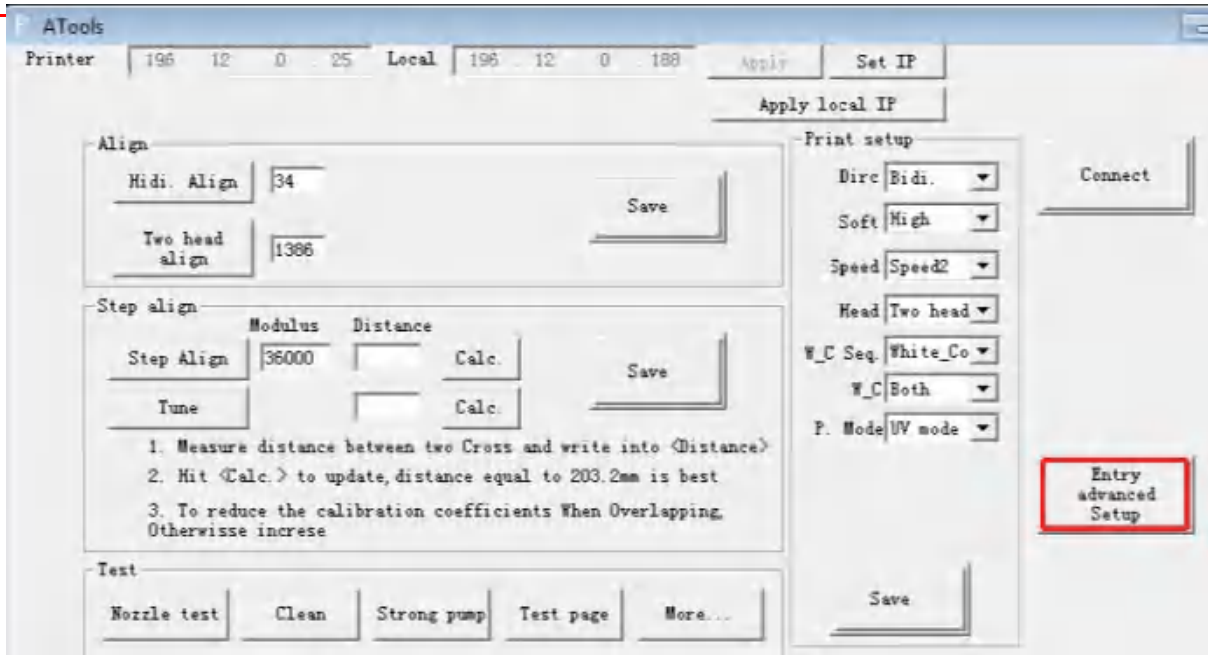


Click “bidirectional calibration” button to print the calibration graph:



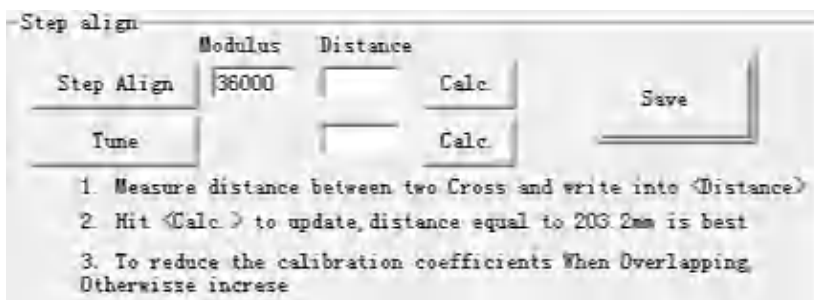
Observe the printed graph, select the thick and thin lines that completely coincide with each other, add the corresponding number and the value shown in the double-head horizontal spacing calibration area, input the calculation result manually, and then click the "Save Parameters" button. For example, the line corresponding to 3 has the best coincidence, and the calculation result is $1542 + 3 = 1545$, input 1545 in the double-head horizontal calibration area and save the parameters.

5.6 Double-head vertical distance calibration

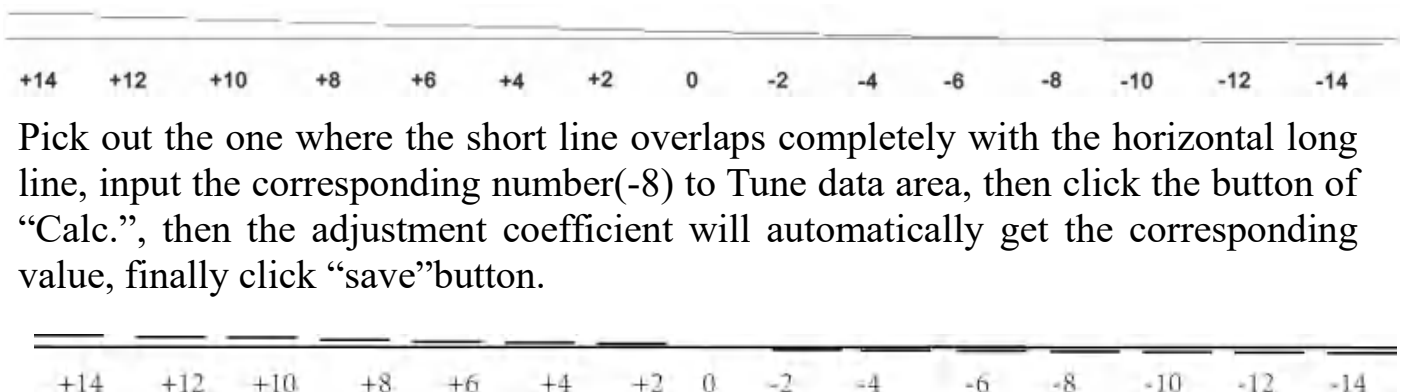


Observe the value of the printed white and color on a horizontal line, add and calculate.

5.7 The step calibration



Click the button of Tune, print the adjustment pattern:



Pick out the one where the short line overlaps completely with the horizontal long line, input the corresponding number(-8) to Tune data area, then click the button of “Calc.”, then the adjustment coefficient will automatically get the corresponding value, finally click “save”button.

This is good setting print.

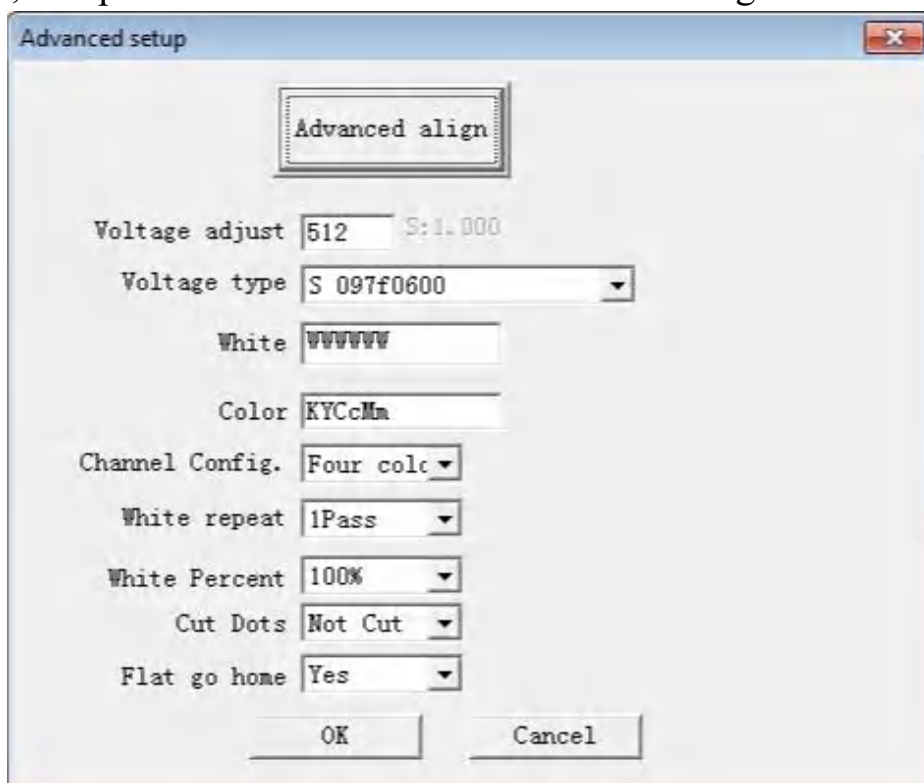
5.8 Print function settings



Calibration tool print settings can set print direction, feather strength, print speed, print head options.

5.9 Advanced Settings Function

Click "Enter advanced Settings" button, input "16753" in the pop-up password box, and press "OK" to enter the advanced Settings menu:

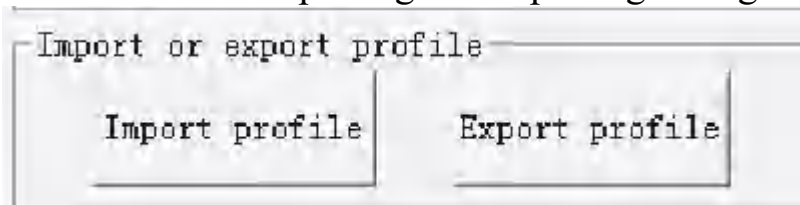


- 1、 Voltage type: select S 097F0600, corresponding to the default waveform of UV machine.
- 2、 Voltage adjustment: to adjust the voltage of the print head, the nozzle ink deficiency, flying ink and so on can be appropriately adjusted to increase this parameter value; The print head is easy to break the ink, the color is too thick, can be appropriately lower the parameter value. Parameter adjustment range: 460-560. The standard value is 512.

- 3、Color: KYCcMm stands for six colors. The color sequence of the 6 channels from left to right of the print head (the ink sequence in the figure above is black, blue, red, yellow, blue, red, and so on) can be adjusted as required, and the corresponding ink sac also needs to be adjusted after adjustment. This function is aimed at a channel of the print head when the ink is not good, in the case of not changing the print head, the color that is not commonly used or has little impact on the overall printing effect is changed to the channel with problems, so as to prolong the service life of the print head.
- 4、Channel Config. : Four color+white
- 5、White repeat:white print stacking fold
- 6、cut dots and flat go home: used for print bottle

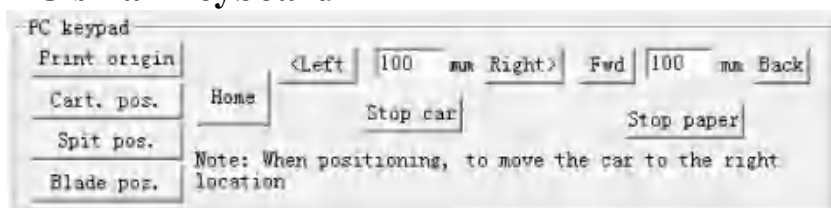
5.10 Import and export calibration parameters

Click "More..." in the maintenance area. The maintenance menu is displayed, and the buttons for importing and exporting configuration files are displayed



After all parameters are calibrated, click "Save Setting File" button to save the calibration parameters in the form of files on the computer. If need to replace the head board in the future, connect the computer after replacement, click "more..." -- "Import Setting file", import the calibration parameters saved by the machine into the circuit board to save a lot of work of re-calibration parameters.

5.11 PC small keyboard

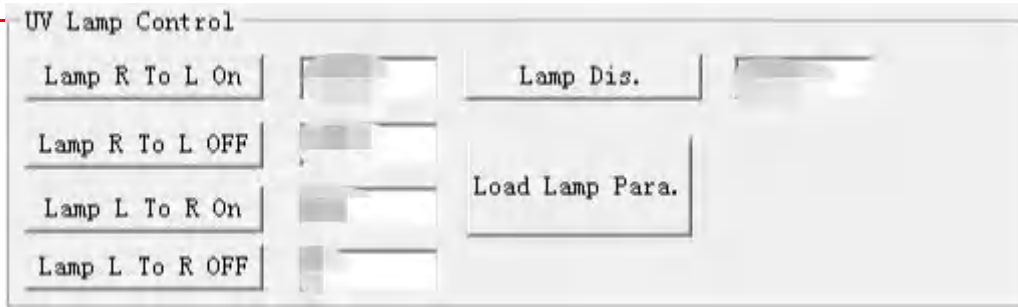


PC small keyboard can accurately control the setting of the head board ink station

5.12 Flash spray setting in printing



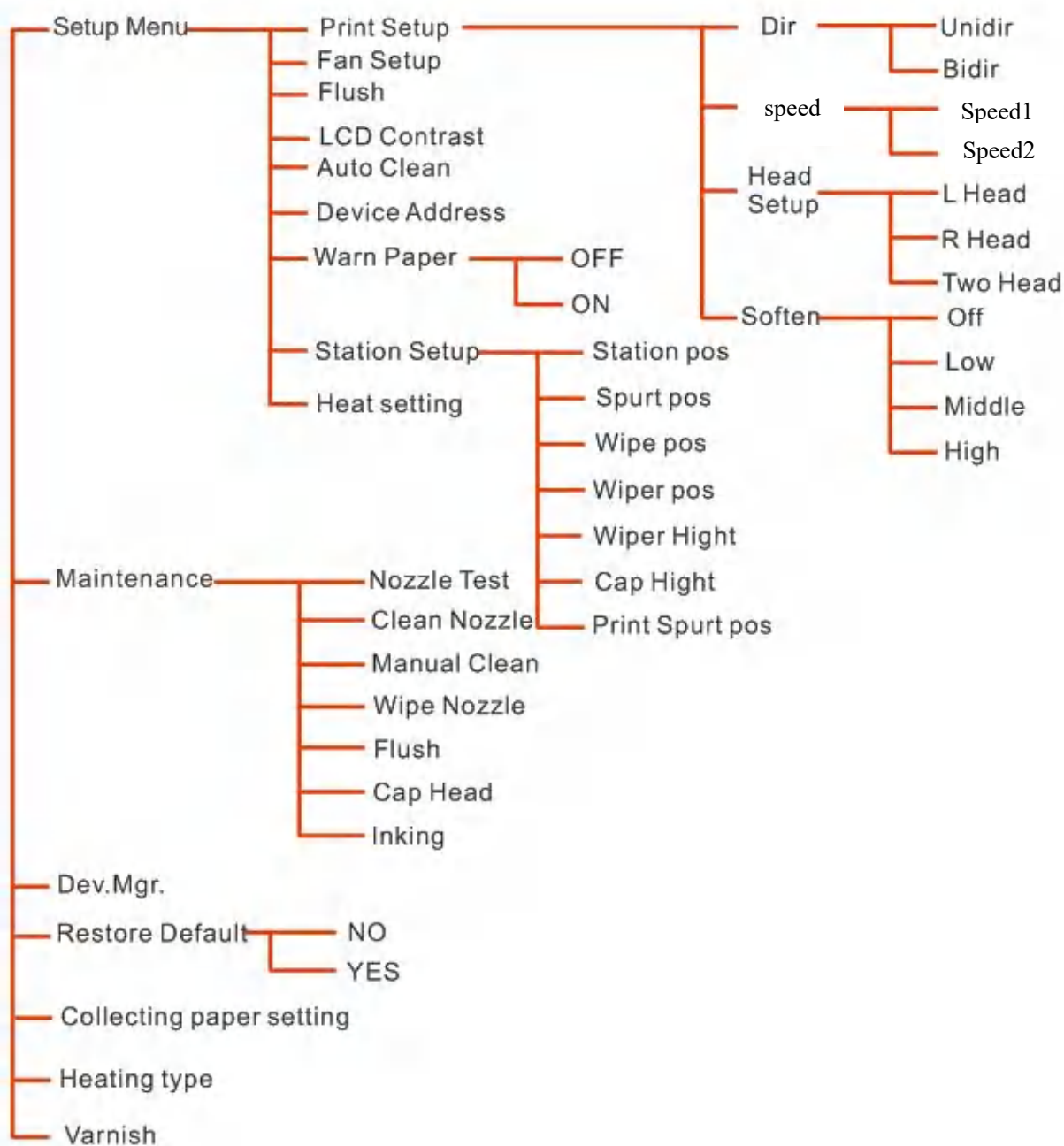
5.13uvlights setting



After the value is changed, click the button to save, and then click the button in the position of the lamp to save.

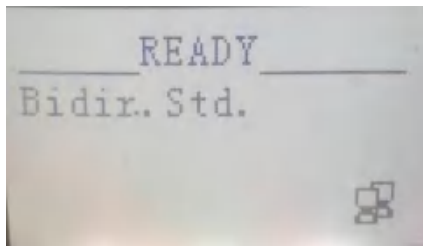
6、 Architecture of control panel menu:

6.1 Menu tree

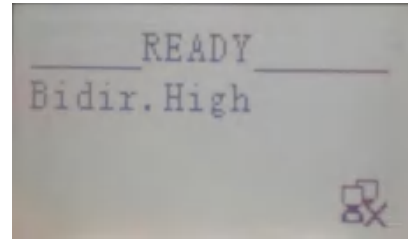


6.2 Menu description

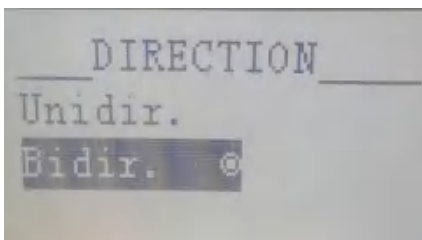
In standby mode, press Enter to enter the menu. .



Power on, device not online.

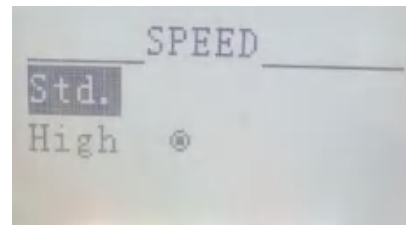


Settings menu - Print Settings - Direction

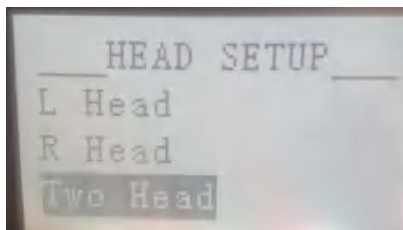


Direction setting: one-way printing or two-way printing is used in the printing process.

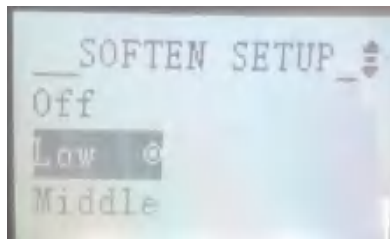
Settings menu—Print settings—Speed



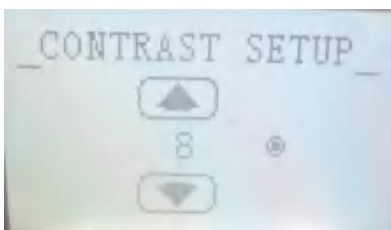
Speed setting: standard speed printing or high speed printing is adopted in the printing process.



Print head setting: Select the type of sprinkler head when printing.

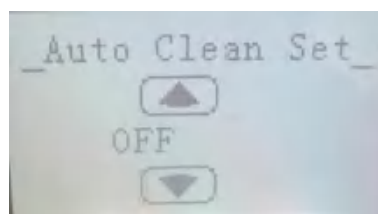


Feathering setting compensates for the pass generated during the printing process and beautifies the image.



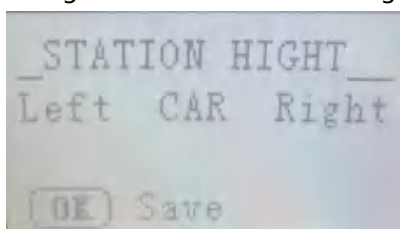
Mainly adjust the contrast ratio of the text displayed in LCD

Setting menu—Auto cleaning



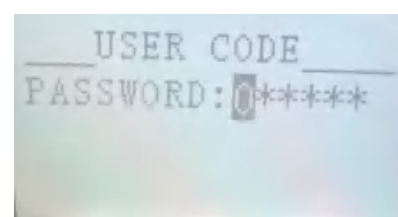
Set the interval of automatic cleaning during printing (0.5h, 1H, 3H, 8H)

Settings menu - Ink station Settings - Ink station



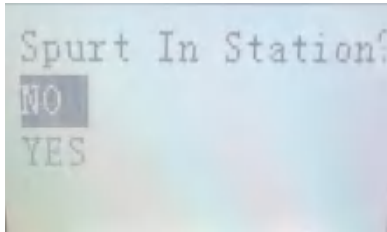
Press the left and right buttons on the panel to move head board and position the origin of ink station (the best moisturizing position of ink nozzle

Setting menu—device address



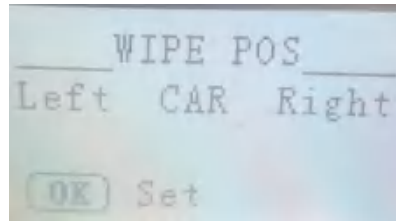
The device address is available only to engineers.

Setting menu - Ink station setting - flash



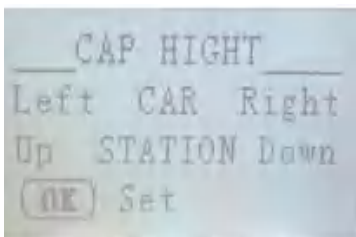
Set the position of the flash spray nozzle.

Setting menu - Ink station setting - scraper



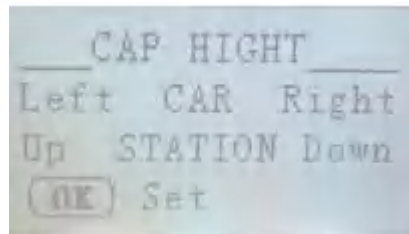
Press the left and right keys on the panel to move the head board and set the end distance of scraping ink stroke.

Set menu - Ink station setup - Head height

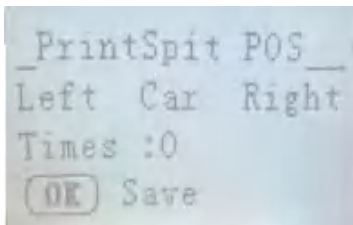


Press the left and right keys of the panel to move the head board so as to facilitate the positioning of the ink nozzle. Press the up and down keys of the panel to adjust the height of the ink nozzle moisturizing nozzle.

Settings menu - Ink station

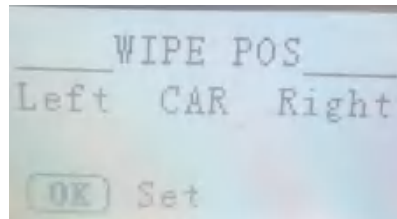


Press the left and right keys of the panel to move



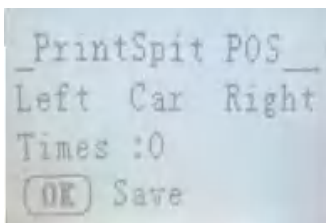
The setting of head board flash position in the printing process.

Setting menu - Ink station setting - scraper



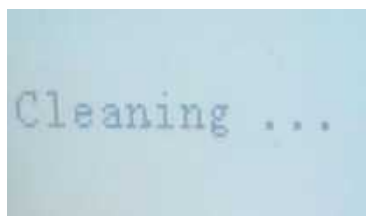
The setting is effective for electrically controlled blade

Setup menu - Equipment Maintenance - Nozzle test



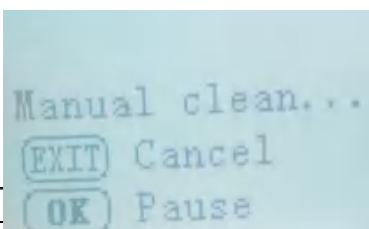
Automatic cleaning when the inking condition of the nozzle is not good, which is conducive to the best inking of nozzle.

Setting menu - Device Maintenance - Automatic cleaning



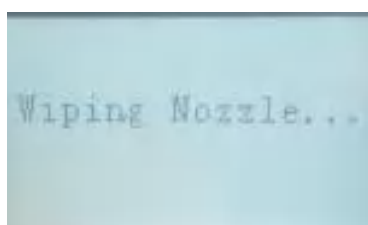
The nozzle is automatically cleaned when the ink is in a bad state, which is conducive to the best ink output from the nozzle hole.

Setting menu—equipment maintenance—manual cleaning



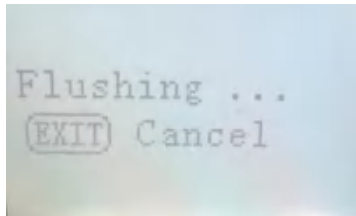
Manual cleaning when the nozzle is not in good ink state is beneficial to the best ink out of the nozzle hole.

Setting menu—equipment maintenance—scrapping nozzle



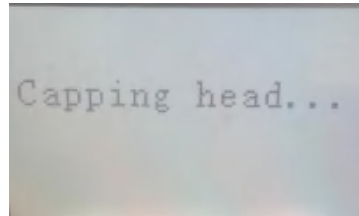
If there are foreign objects or residual ink droplets on the nozzle surface, use the wiper function to keep the nozzle surface clean

Setting menu—equipment maintenance—flushing ink



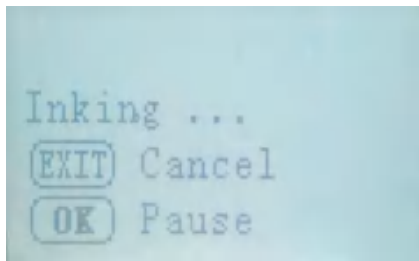
Inking is to flash out the ink from the nozzle.

Setting menu—equipment maintenance—head



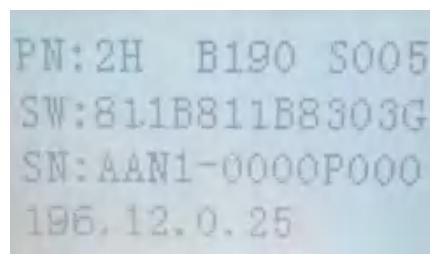
The ink suction nozzle of the ink station rises to seal and protect the nozzle.

Setup menu—equipment maintenance—automatic ink loading



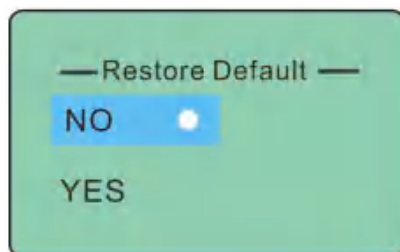
Install ink to the nozzle for ink supply (pumping ink).

Equipment information



Version information of the device board and program.

Factory reset input:16753



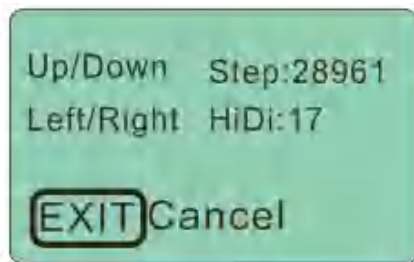
Restore factory setting?

NO/YES

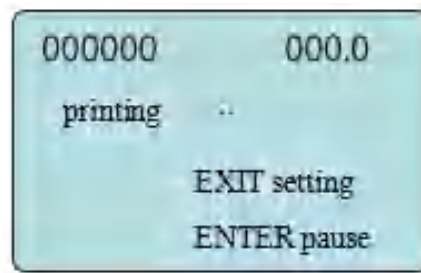
Technicians use the project, Please don't restore default.

6.3 Printing instruction

Setting in Printing

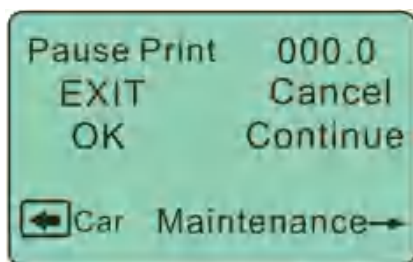


Press up and down to adjust the step parameter
Press left and right to adjust the two way parameter



000000—Total print length of the device
000.0—Current print pattern length

Pause in printing



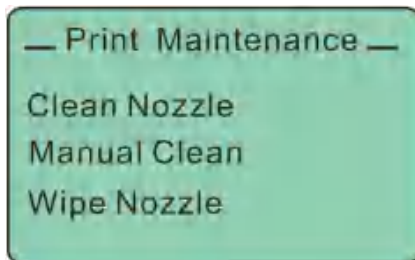
The information when pause in printing

Cancel Printing



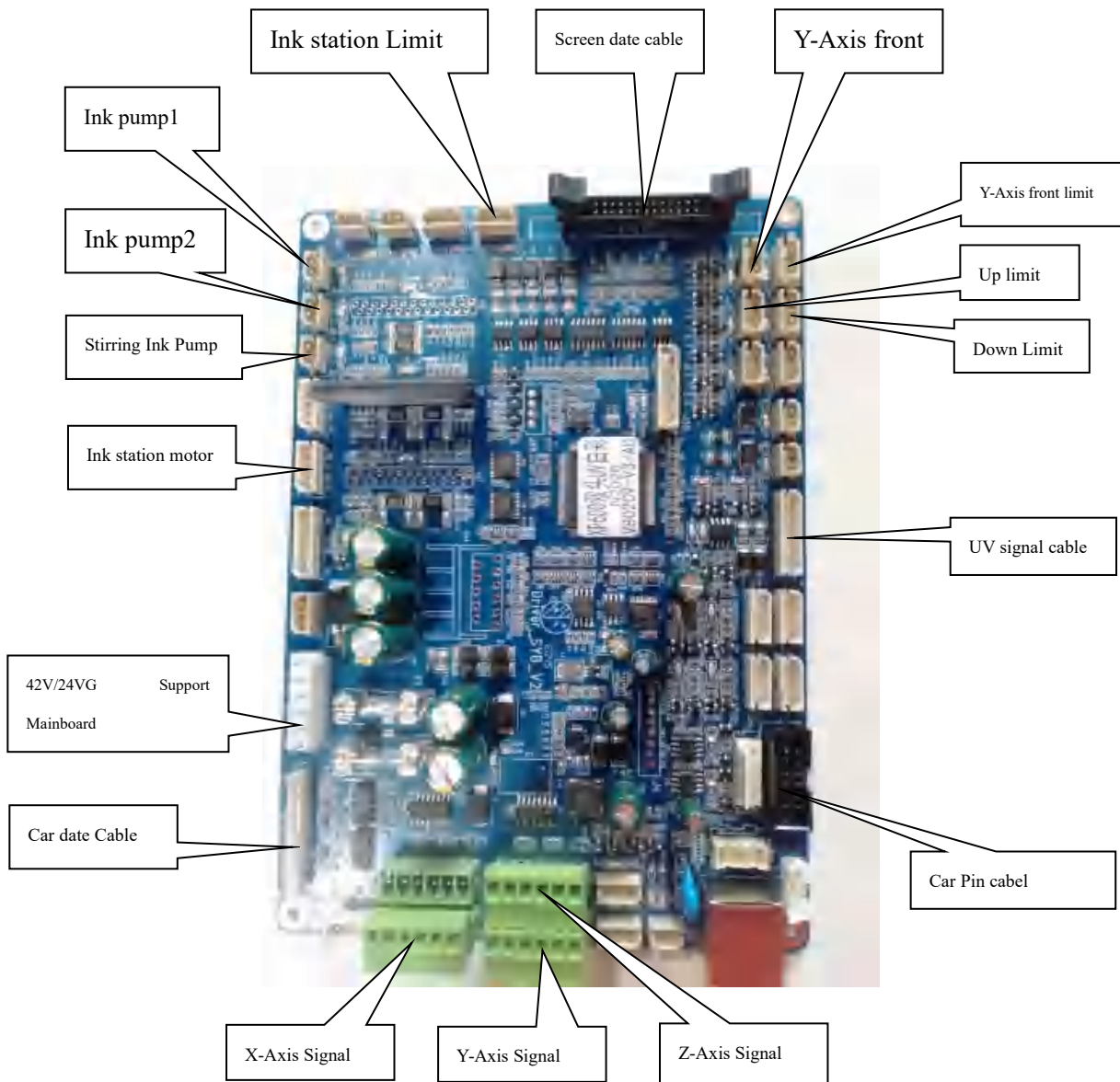
Press up and down button to select and press confirm button to confirm

Print Maintain

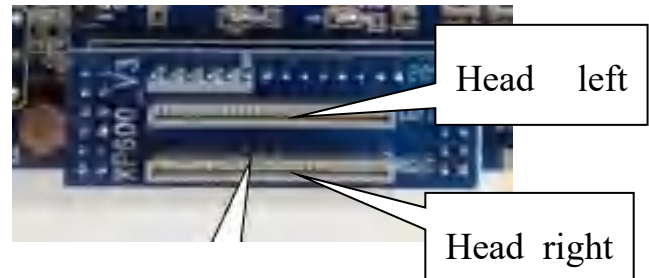
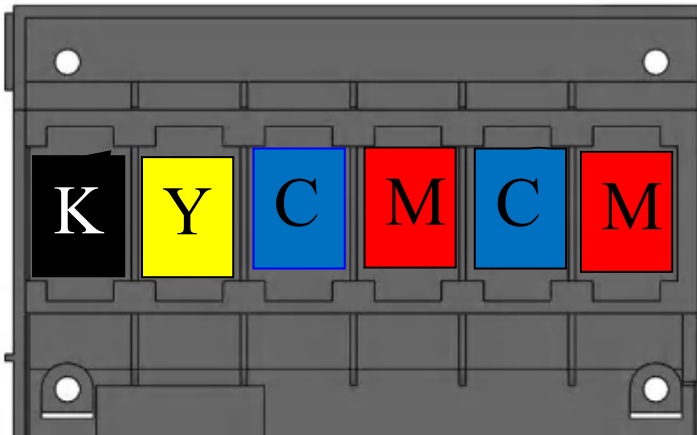


Maintenance operations for print head when suspended in printing process (automatic cleaning, manual cleaning, scraping nozzle, inking, sealing head)

7、Information of Mainboard



8、 Installation position of nozzle structure and installation sequence of ink damper :



Epson print head channel color sequence

**Left for white right for color third head
for varnish**

9、 Attention :

1. Before UV machine is put into production and operation, it should be equipped with voltage regulator and other related voltage control equipment for the machine to improve the stability and long-term operation of the machine.
2. Check whether the grounding cable is properly grounded and the switches of the power supply are in good condition before starting the device.
3. The staff operating the machine should keep in mind before printing, we must check the printing height is right or not, the print head is cleaning or not, and the print head was tested or not.
4. The preparation before printing should be careful, and the size of the material and the size of the plate should be corresponding.
5. When the UV machine has a serious fault, please inform the manufacturer or distributor in time, do not open the box, to prevent accidents.
6. The ink nozzle of UV machine must not be cleaned with water, which will directly crystallize the surface of the ink nozzle.

10、 Trouble shooting and Solve:

1、 Error reported car resistance big :

1. Adjust the position of the encoder strip, and the upper end of the strip is near the upper

point in the half position of the U slot.

2. Replace the encoder strip.
3. The dip code of motor parameters of X-axis is incorrect.
4. Replace the X-axis motor.

2、Error reported Ink Station Motor:

1. Manually dial the big gear of the motor of the ink station, remove the induction block from the U slot of the decoder, and open the machine again.
- 2, ink station motor plug is loose or not, plug and pull again.
3. Turn the big gear by hand to rotate the ink station to the appropriate position, with the four centrifugal black wheels in the same direction.

3、Nozzle does not have ink:

- 1, check the left and right lights on the car board of the two layers board (left and right lights and the upper left corner of a light flashing a total of five lights normal); If not, check whether the HV fuse on the motherboard is burned (4A); Replace the car board.
2. Exchange the position of the left and right sockets on the car board. (The slot position of the car board should be paid more attention). The UP end should be inserted right and the DOWN end should be inserted left.)
- 3, after cleaning the nozzle, put the white paper under the nozzle to see whether there is flash spray.
4. Replace the new print head.

4、Printer can not connected or can not print:

- 1, Windows system with Win7 32-bit operating system.
2. Open the local area network connection property, change it to Automatically obtain IP address, and manually enter IP address 196, 12, 0, 188

The Subnet mask is 255,255,255,0.

3, check the socket of network print line and motherboard. 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 connection network line and socket of motherboard and car board.

5、 Can not open the print software:

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

2. Reinstall the printing software.

6、 The car is not reset in place or reset with jitter:

1.the 26P Date cabel on the car board is loose or not and plug and pull again.

2. Whether the positioning decoder is broken or replaced.

3,.replace the car board.

7、 Serious break line when testing print head:

1, use manual ink suction for 5 seconds, and then use automatic cleaning twice, to check the effect of printing.

2, loose the fixed screw in the ink station , manual ink station position and nozzle surface full contact to achieve smooth ink absorption.

3, replace the ink capping.

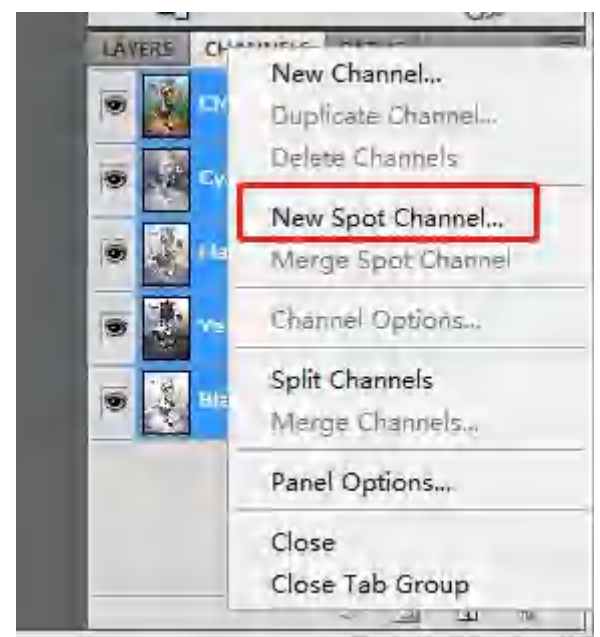
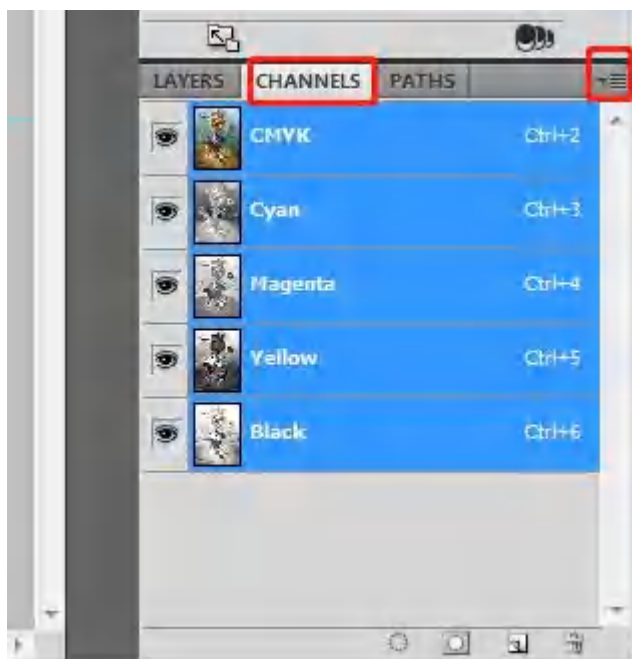
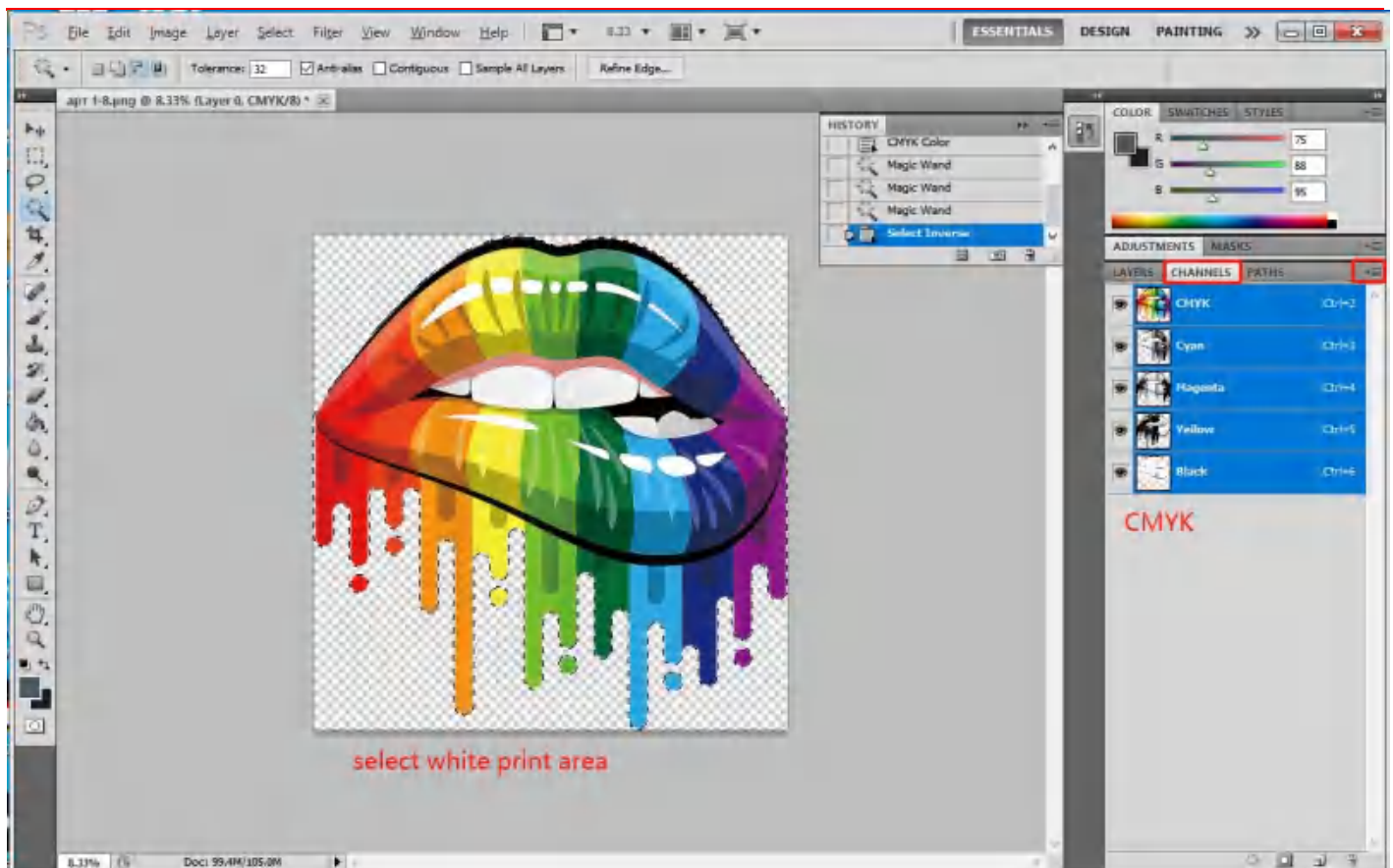
8、 There are pauses in printing:

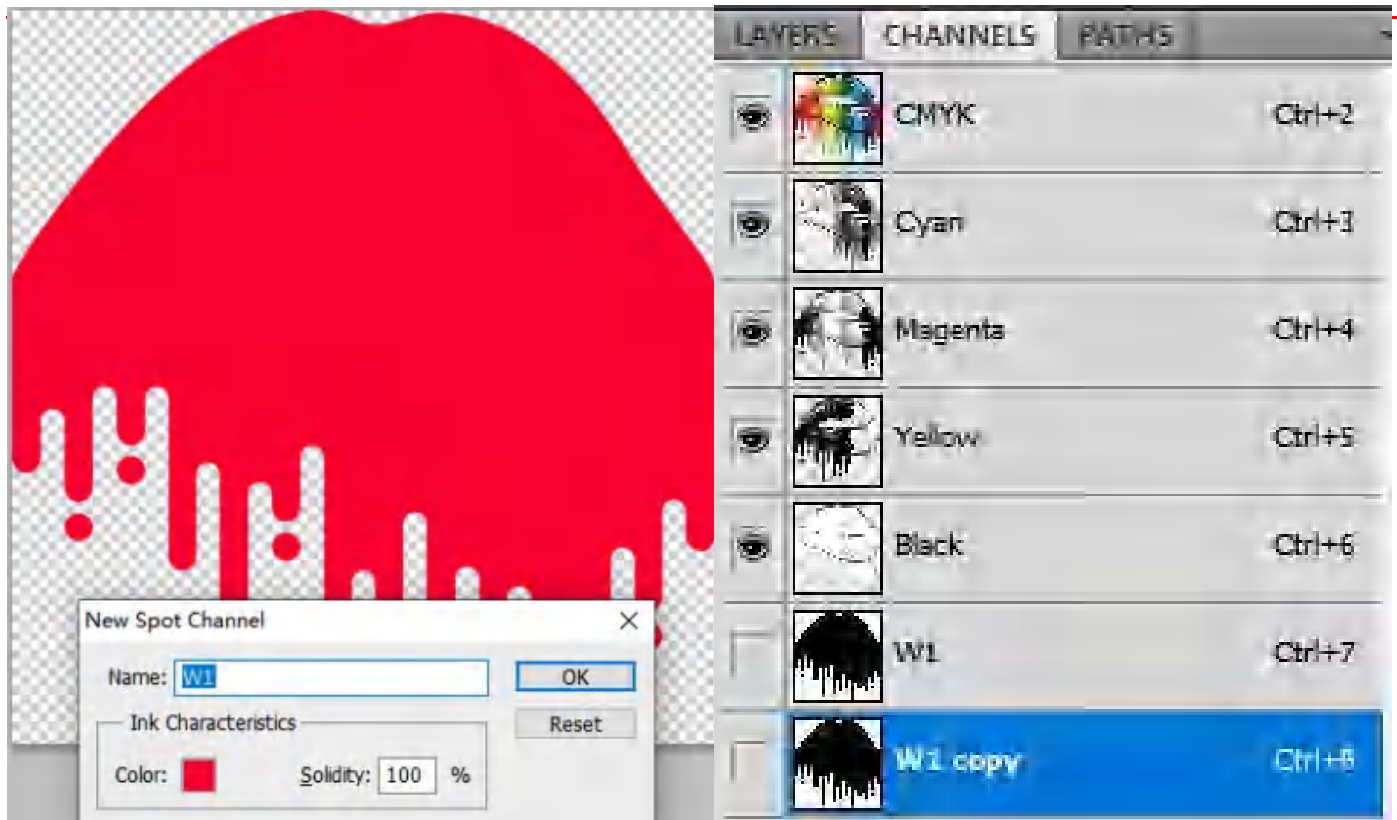
1. Replace the Win7 32-bit operating system.

2. Ping 196.12.0.188 to check whether TTL=64 or TTL=128. If only TTL=128, there is a pause then will be change the independent nextwork card.

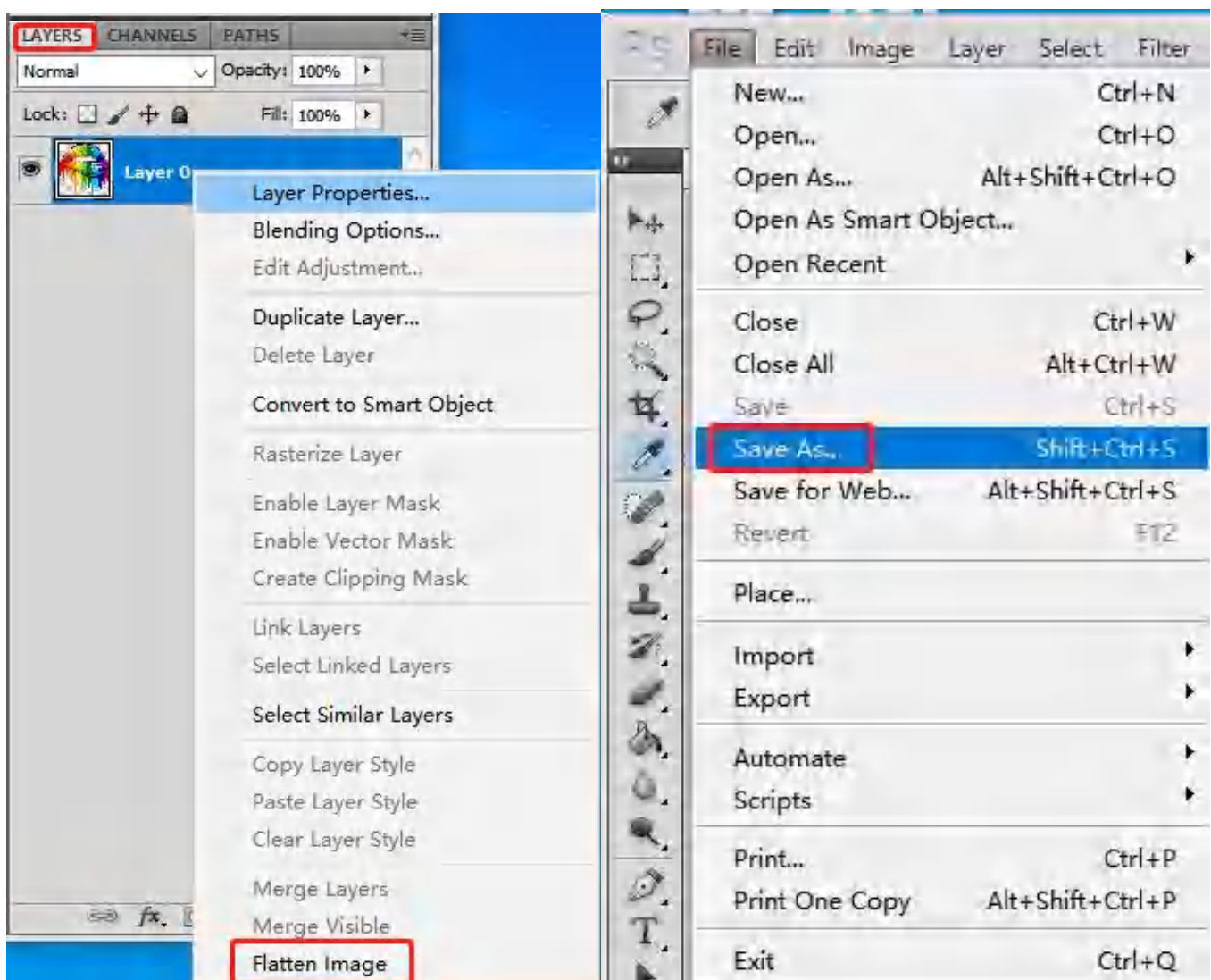
ADD : Make white port color

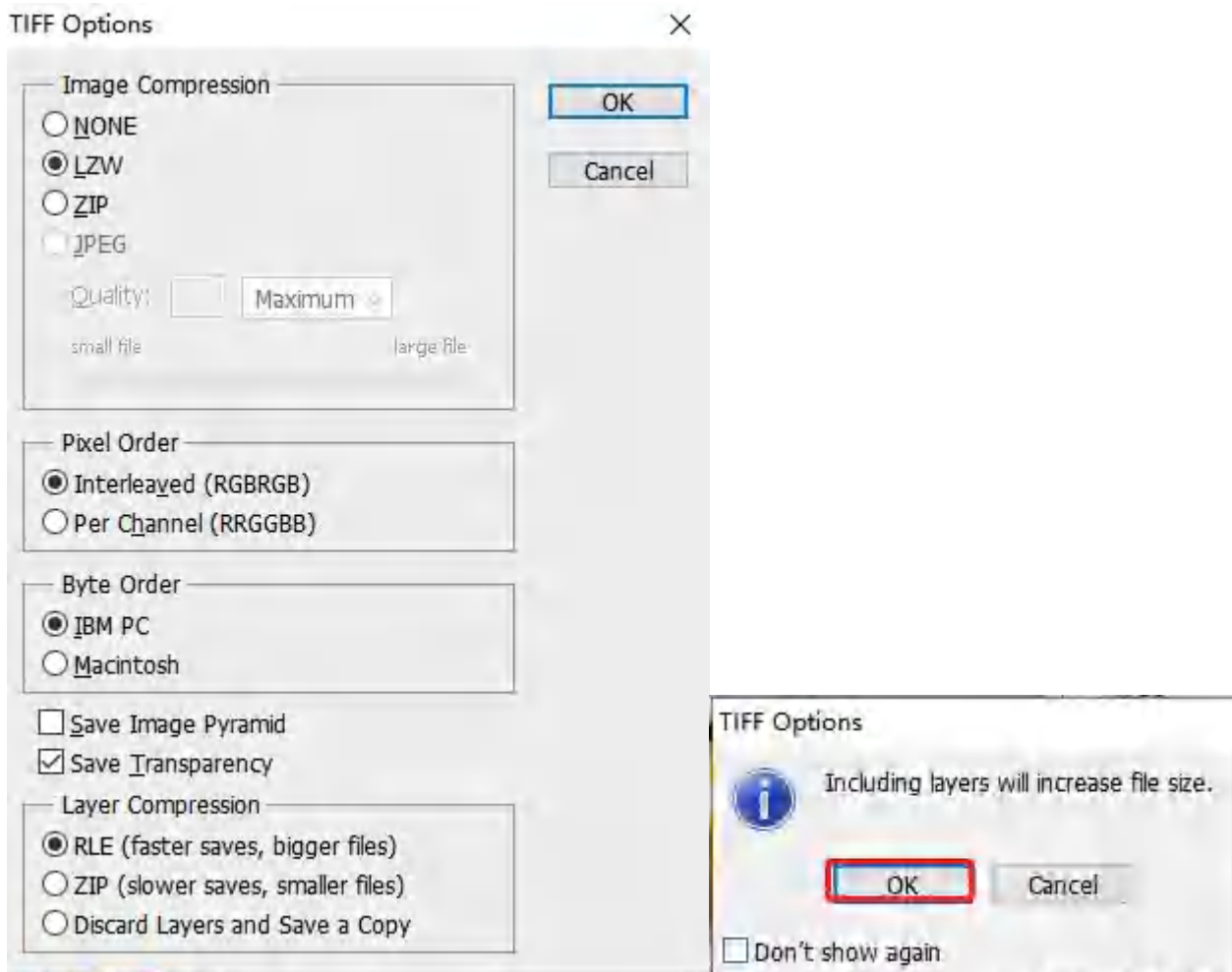
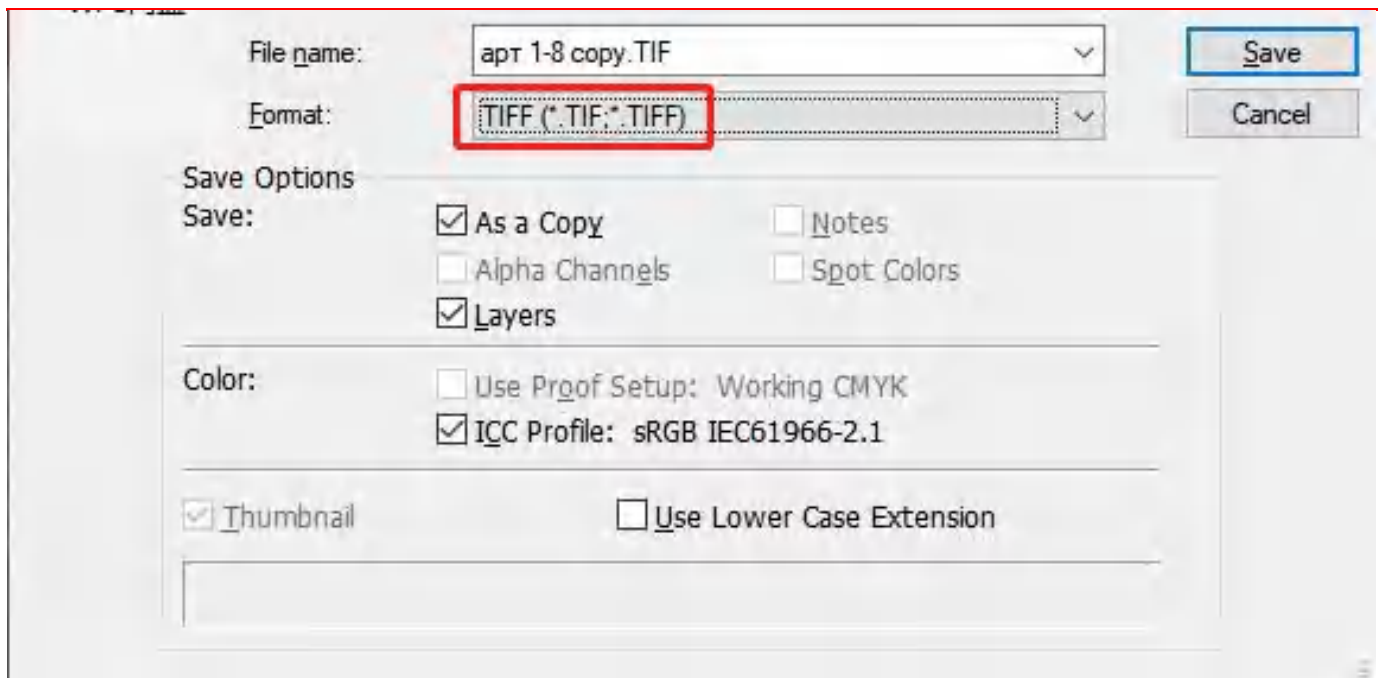
1.select you want print region



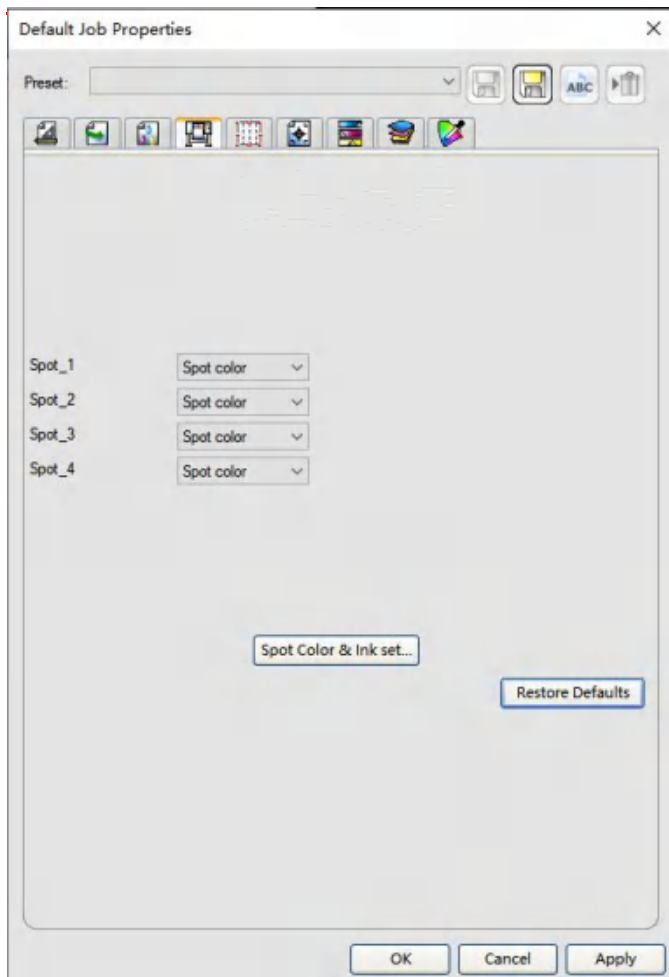


You can make two or more .

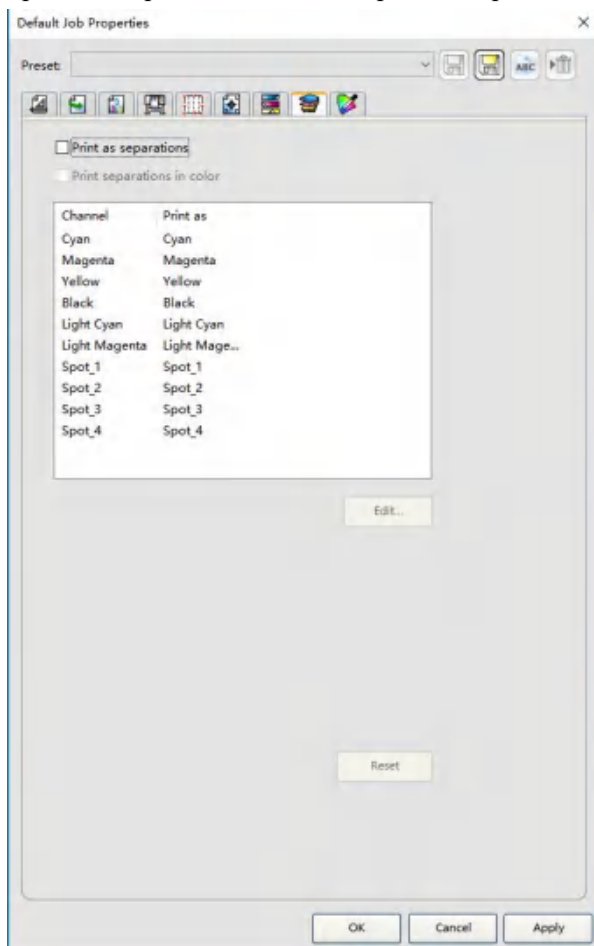




Open the file in the flexiprint. Spot1 and 2 set white, spot3 and 4 set varnish.



Spot 1 and spot2 for white spot3 and spot4 for varnish



make 4 spot color