polaroid

POLAROID SECOND
UV Printer

USER MANUAL

Step 1. Open the machine packing
• Open the carton, check the installation parts: such as the feeding and taking up system, support, infrared heating and cooling system and so on.

Step 2. Assemble the stand
•Assemble the stand

T-Type side support

Fixed cross beam

Step 2.1. Install the stand
• Connect the left and right stand with crossbeams.

Stand installation figure

Step 3. Fix the body
• Fix the stand and body together

Lock four screws
on the left and
right sides

Step 4. Installation of the feeding system
• Insall the left and right plate of the feeding system - install the roller

Left side plate

Right side plate

Step 4.1. Install the take-up system
• Fix the left and right side plate
• Fix tension taking up system

Left side

Plate right side plate

Fix tension taking up system
the bearing roller up

Step 4.2. Install the taking up system
• Fix the roller adjust the gears to change the travel distance of the tension taking up system

Fix the roller

Open the control box, adjust the gears to change
the travel distance

Step 4.3. Install the infrared and cooling system
• Fix the left and right side plate
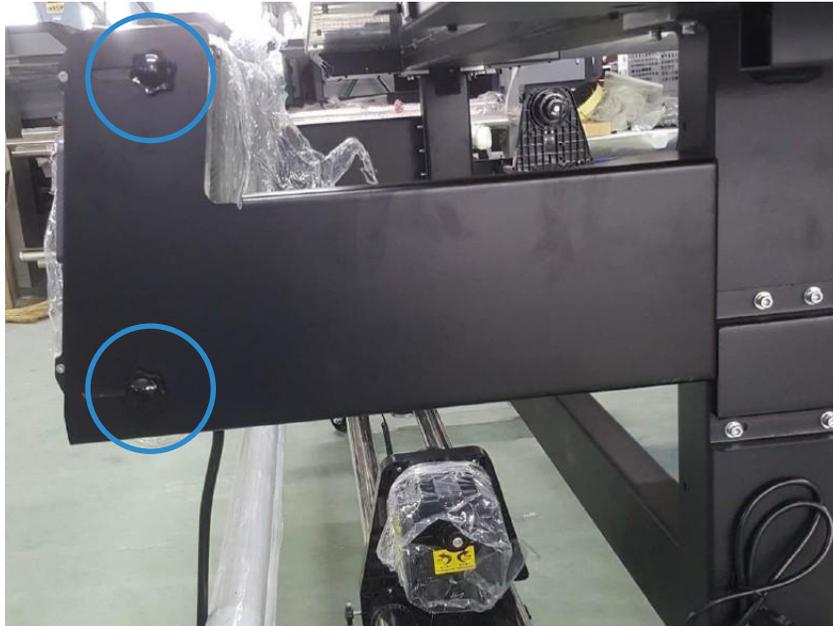• Install the infrared cooling system

Left side plate

Right side plate

Step 4.4. Install the infrared and cooling system
- Fix the left and right side plate
- Install the infrared cooling system

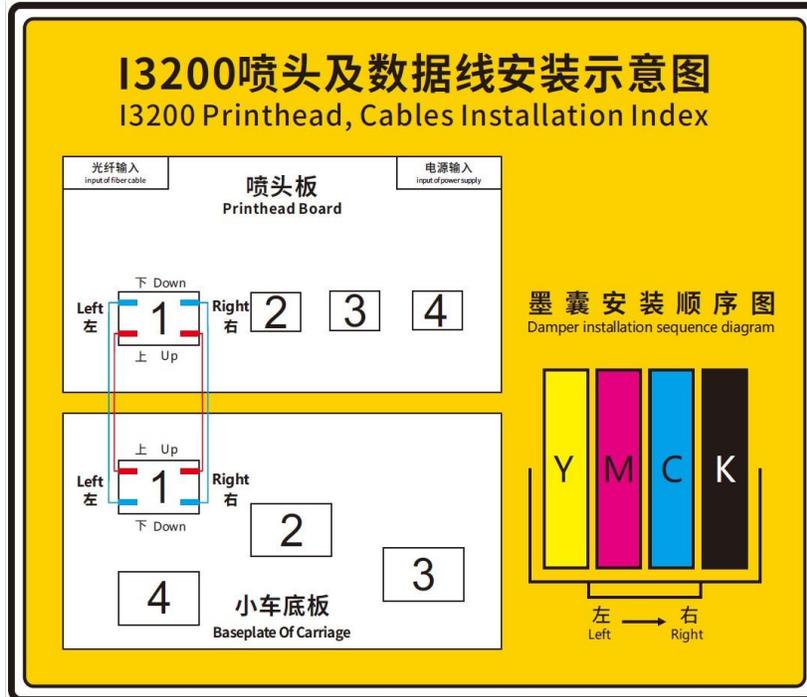### Step 5. Install the ink path system
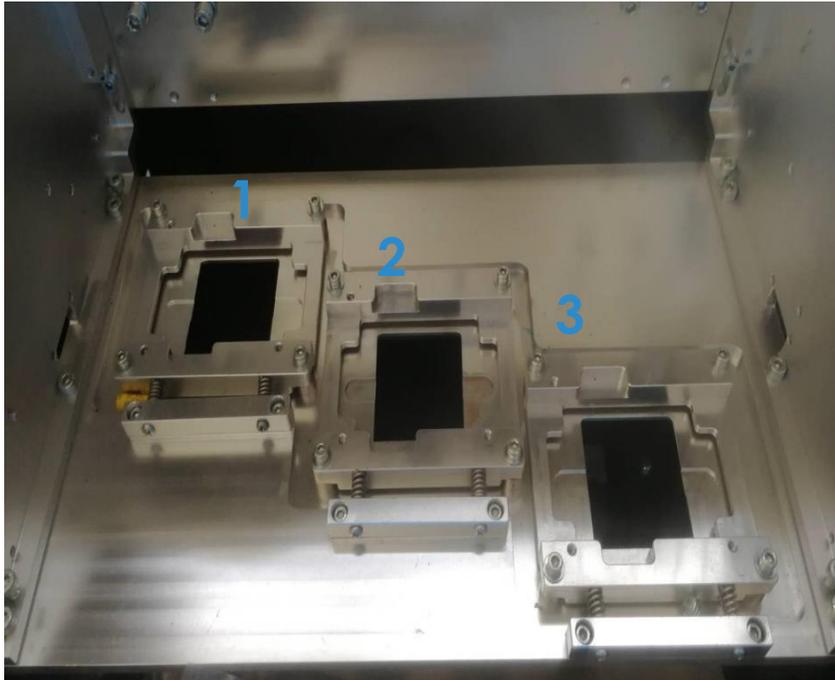

Ink cartridge

Filter

Step 6. Install the head and cable

Step 6.1. Install the print head

• Connect printhead board and decoder with 14P flat cable

Step 7. Damper installation

Install damper as the sequence from left to right.

Step 8. Computer configuration

Computer configuration standard

Print driver installation

Add ICC

Configuration	Specification and model
Processor	Intel i5 3.0GHz
System	Win7, Win10 （64-bit)
Internal storage	8G
Graphics card	Independent 1GB
Hard disk	1T
Universal serial interface	USB3.0 INTERFACE

Step 9. PhotoPrint Installation

• Install activation software on a computer with Internet access
• Launch the browser and enter the activation site in your browse https://www.saicloud.com
• After entering the website, select the language as Chinese at the bottom of the website
• Enter the activation code in the PhotoPrint software box in the random accessory pack in the activation code box and click the activation button.
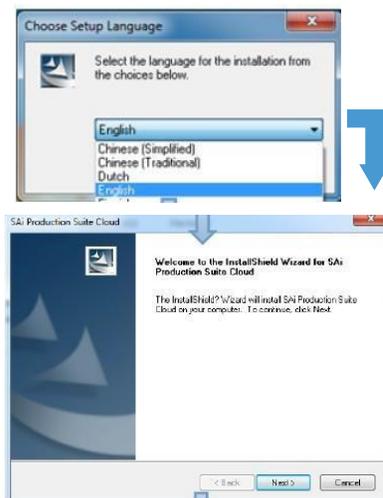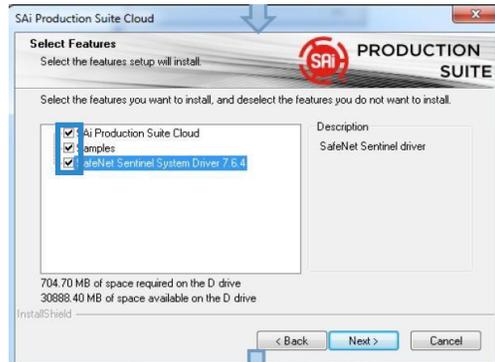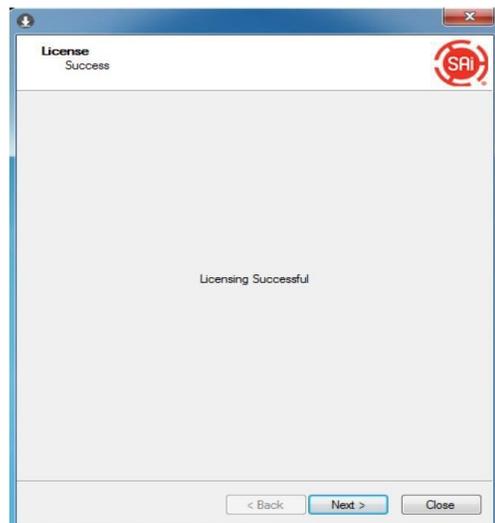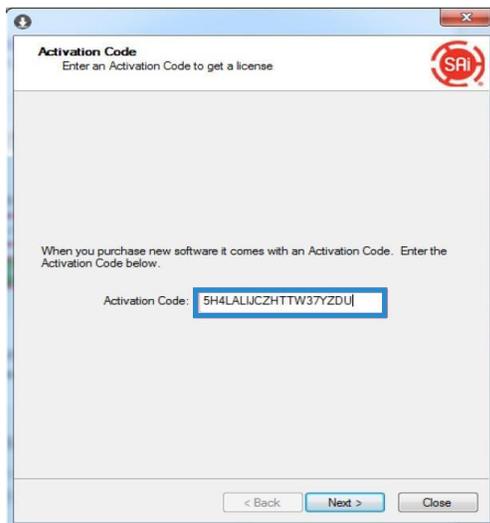
- Select "I am a new user of SAi Cloud", input the email address and create the account. After the creation, enter the email to check and confirm the email, click the link in the email, and enter the account password and other registration information to complete the account registration.

- Put the software installation cd-rom in the computer cd-rom drive, automatically play the cd-rom or manually open Autorun in the cd-rom directory, select the installation language, accept the software license agreement and set the software installation directory.
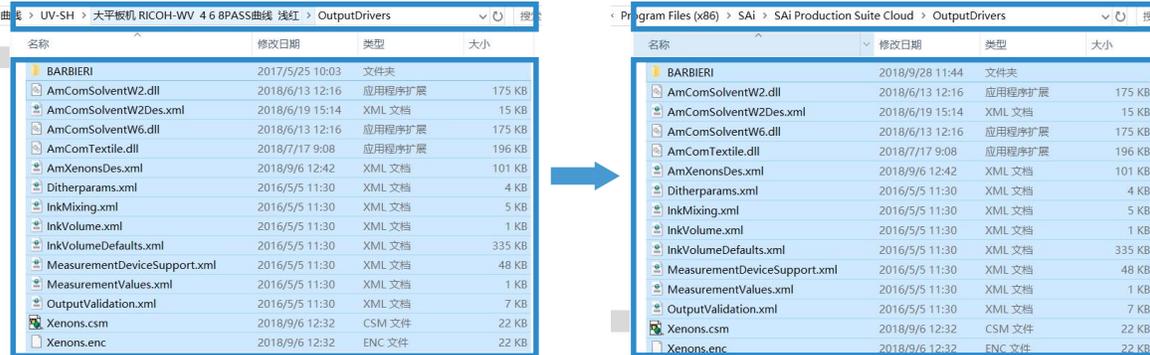

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Enter the activation code in the software box in the dialog box and click Next to prompt the authorization to succeed. Click Finish.
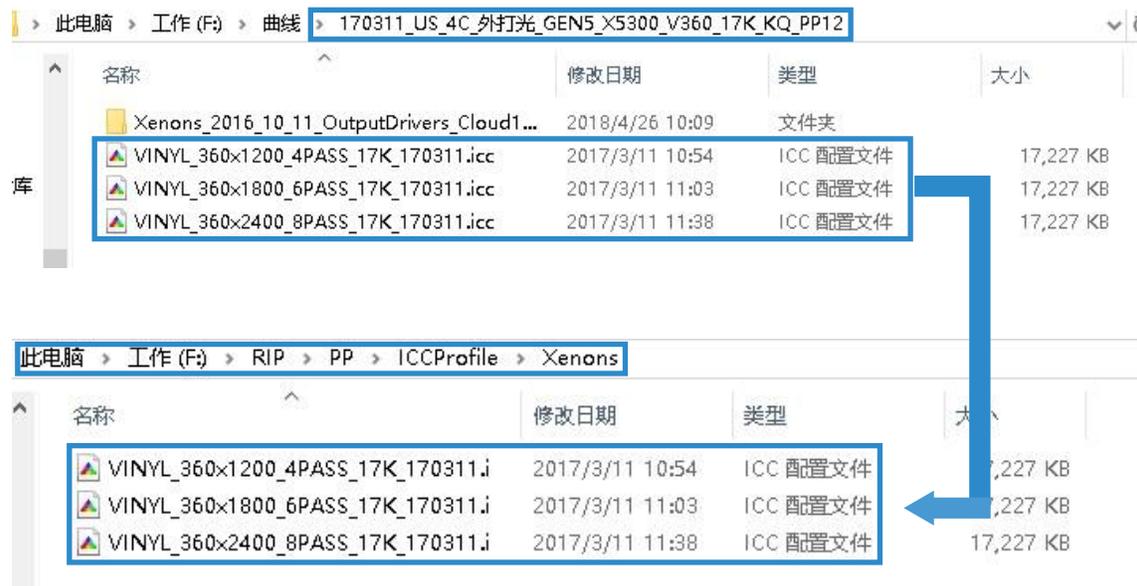
Step10. Icc addition

PP software icc addition

- Replace OutputDrivers
- Replace the OutputDrivers file in the ICC with the OutputDrivers folder under the PP installation directory.
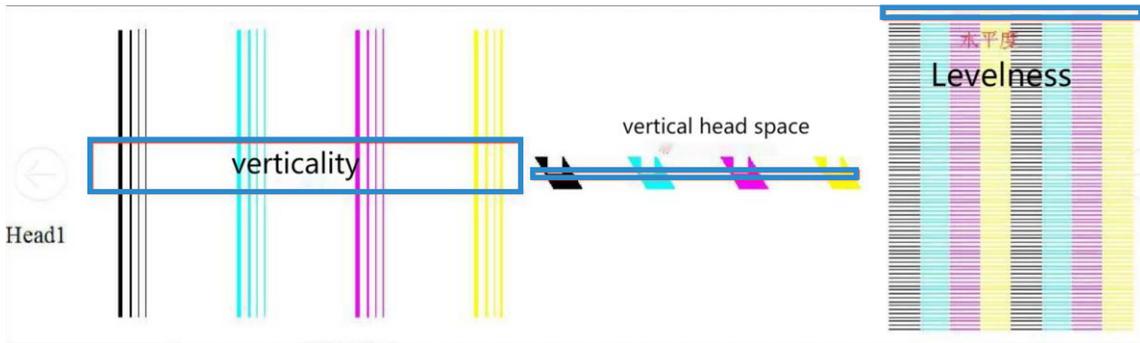

Add ICC

- Replace the ICC file in the curve with the ICCprofile-Xenons folder under the PP installation direc-tory

Step 11. Print head calibration
Vertical alignment: The vertical calibration diagram of print head is used to test whether the installation of print head is vertical or not. According to the test diagram to adjust the inclination of the head, to make sure printing in the same vertical position twice.
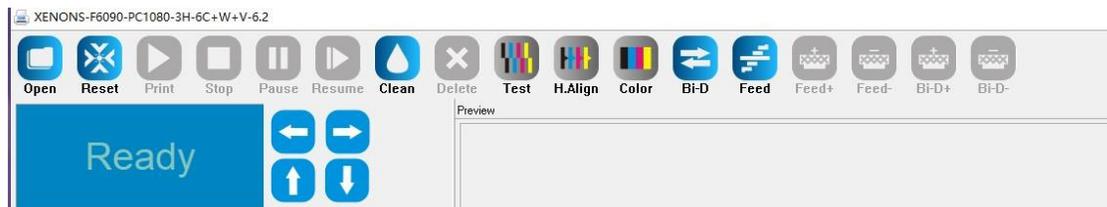

Physical calibration adjustment: According to the vertical calibration diagram to adjust printhead vertical and horizontal

Vertical calibration, adjust spring screw

step 12. color calbration
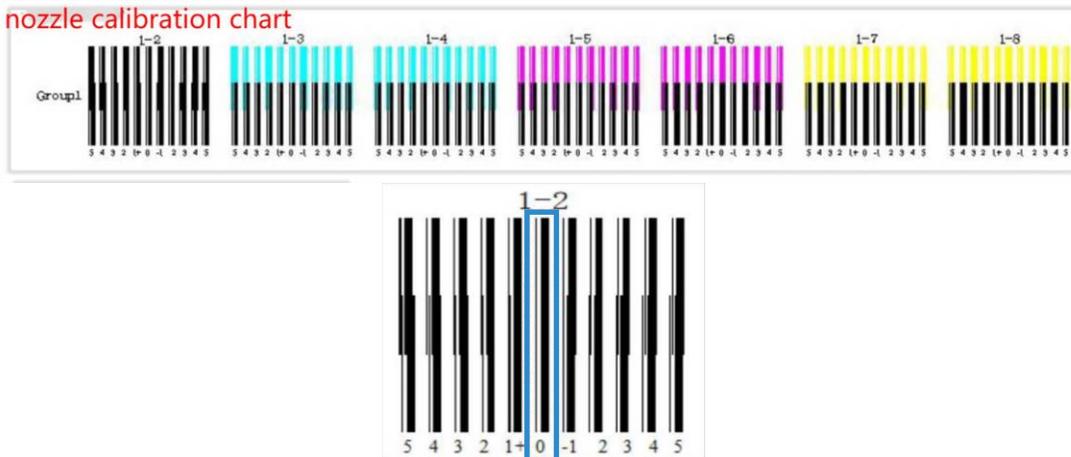Open the software, click the color to the calibration interface, under the normal online state,

Color Calibration
- **Direction:** Positive and negative direction calibration is required during calibration
- **Resolution:** According to the required resolution of printing select the calibration resolution.
- （default option 360DPI)
- **Drop type:** Select large, small and medium drop type for calibration, and default color calibration for large drop.
- **Horizontal position:** Set the location where you want to print

Physical color calibration standard： 0bit
- Make sure that the position of KCMY "0" when printing is in the same vertical position and most coincident, as shown in the picture left, by printing the calibration figure, observe the bottom value with the most vertical/coincidence, and fill in the color calibration dialog box.
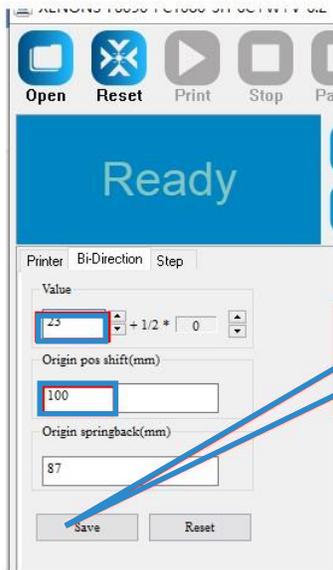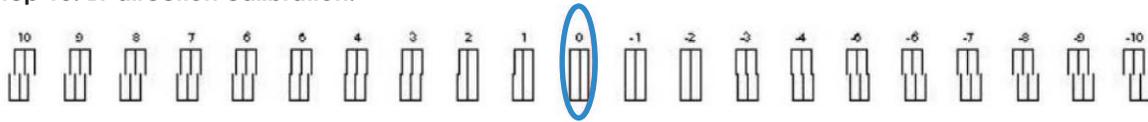
Color calibration interface

Nozzle color calibration paremeters fill

01. **Correction parameter：** When correcting the para meters, you need to check the "Color Calibration" dialog box to take effect. By printing the nozzle calibration chart, fill in the parameters that need to be corrected and fill in the corresponding dialog box in Figure 4.74 above, 1-2 / 1-3 / 1-4 / 1-5 / 1-6 / 1-7 / 1-8....;
02. **Row number:** The first row is the Printhead 1 calibration parameter, and so on, fill in the corresponding color calibration interface. For the same nozzle, the factory default parameter has been set, according to the physical position deviation, fine-tuning during de bugging, as shown in the figure above.
03. **Copy function:** After calibrating the parameters in one direction forward or one direction in the above way, you can use the automatic copy function to copy the adjusted parameters to another direction or copy to another set of nozzles, some of which need to be fine-tuned. Perform the corresponding nozzle calibration chart for printing
04. **One-way forward an done-way reverse parameter filling:** After one-way forward calibration, use one-way reverse copy function: select "print calibration map" direction to print reverse, and check "color calibration", "open first time" Calibration assist fills in the default parameters. "According to the arrow 1.2.3 steps in the figure, the fine adjustment needs to print the correction again, and the saved parameters take effect, as shown in the figure below.
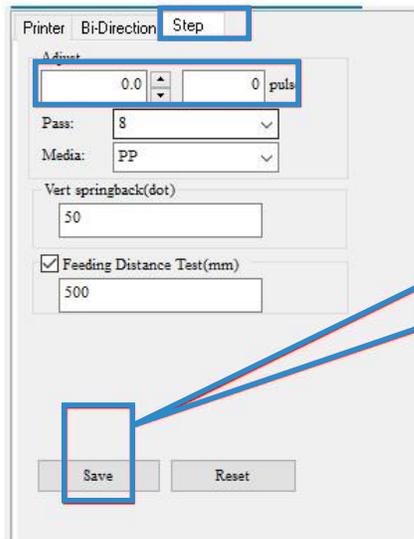
Step 13. Bi-direction calibration.

Bi–direction calibration makes the carriages to print in both directions in the same direction when printing. The bid-direction calibration chart can be used to increase or decrease the most neat value of the box in the bid-direction calibration setting parameters in the software. When the print speed changes, bid-direction calibration isrequired to print the perfect quality. When printing at the same print speed, the printer should be bi-directionally calibrated periodically depending on the mechanical status. "Save parameters" after each change of value. Make sure the new numeric parameters are saved.

Step I4. Step calibration

0 -1 -2 -3 -4 -5

Select "Feeding Gear Ratio Test" under the "Machine Test" menu. In the pop-up window, select "Print Fine Adjustment Calibration Chart", as shown in the figure below, find the value of vertical alignment and fill in the "Step Calibration Value". And then calculate the gear ratio.

Step 15. Print driver key parameter Settings
- Adjust key parameters and set options (as shown in the figure)
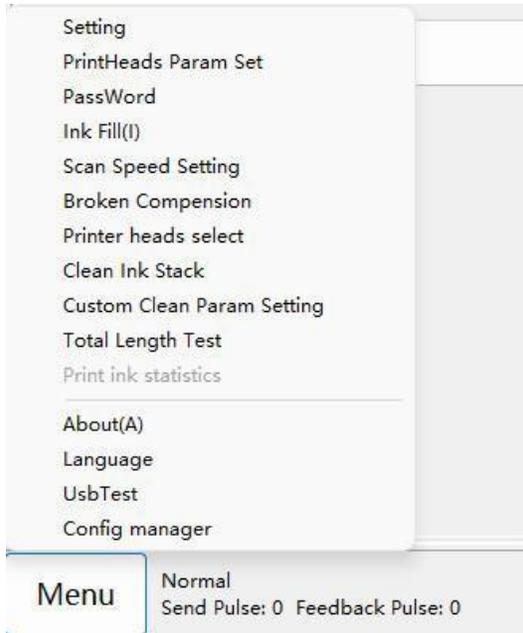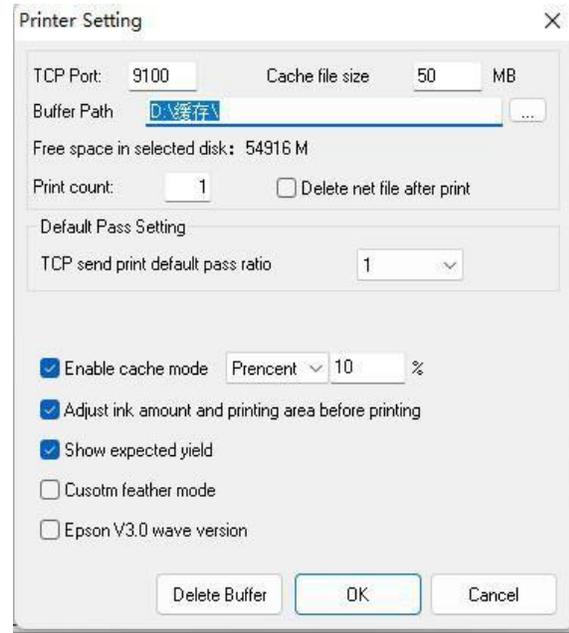- Print Settings are shown in figure 2

Fig 1

Fig2

PRECAUTIONS

1. The machine must be effectively grounded to ensure the elimination of static electricity.

2. The optimum operating environment temperature is 18 °C28°C.Humidity is 40 °%-60°%.

3. The waste ink clamp must be closed every night when the machine is turned off to prevent the ink from returning

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