

# UV printing instructions

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# **I. Code of Practice for Printer Safety**

- 1. avoid places where temperature and humidity are prone to drastic changes: keep away from dust areas; avoid direct sunlight, strong light, or heat sources.
- 2. place around enough space to ensure ventilation and heat dissipation.
- 3. avoid placing in areas prone to vibration or uneven ground. The machine should be placed close to the wall socket for easy online work with the computer.
- 4. connect the power cord directly to the wall socket, do not use extension cord, do not use damaged or broken power cord. be sure to access the ground wire at the installation position.
- 5. printer's power plug, power cord, network wire must be in good contact, firm, avoid in the place of frequent activities, so as not to accidentally fall off the system equipment damage.
- 6. avoid exposing the printer to flammable liquids, gases and smoke agents. or it could cause fire or electric shock.
- 7. insert the printer power cord into the standard power outlet when the printer power switch is off.
- 8. do not remove any door cover or screws other than those specified in the manual.

- Before 9. machine starts, be sure to take away the irrelevant items on the machine and avoid paper clips, staples, or other small metal falling into the machine.
- 10. Do not put your hand into the printer while the printer is working.
- 11. Do not move the printhead by hand, otherwise the printer may be damaged.
- 12. Power cord shall not be damaged, cut or modified. It is forbidden to place heavy objects on the power cord or to pull or bend the power cord unnecessarily.
- 13. If any of the following occurs, the power switch should be turned off immediately and the plug should be unplugged (grab the plug instead of the cable when unplugging it). (1) A foreign body is splashed into the machine. (2) Suspected that the machine needs repair or repair. (3) Damage to the casing of the machine.
- 14. Do not touch parts labeled "high temperature surfaces ". Otherwise it could cause injuries.
- 15. Do not burn spilled or used toner. Dust of toner may burn in flames.
- Remove the power cord from the wall socket before moving the printer; avoid damaging the power cord under the fuselage.
- 16. Cut off the power after work.

## II.Installation of products

### 1.Installation of software

#### 1.1 Printing software installation

Open Print Software Installation Package Unzip Installation Package Unzip the current folder Installation of driver software Open the computer Right-click on the property to view the system type (32-bit/64 bit) to install the corresponding driver based on the view result.

Drive

path: > 此电脑 > D盘(D:) > 软件 > 3360样机 > xp600 3360 20-02-14 > xp600 3360 20-01-04 > xp600 UV > usb device > 64bit

#### 1.2 RIP software installation

RIP Software Installation Package Unzip Installation Package Unzip the current folder Insert Encrypted Dog Click RIPrint Application

The installation steps are as follows:

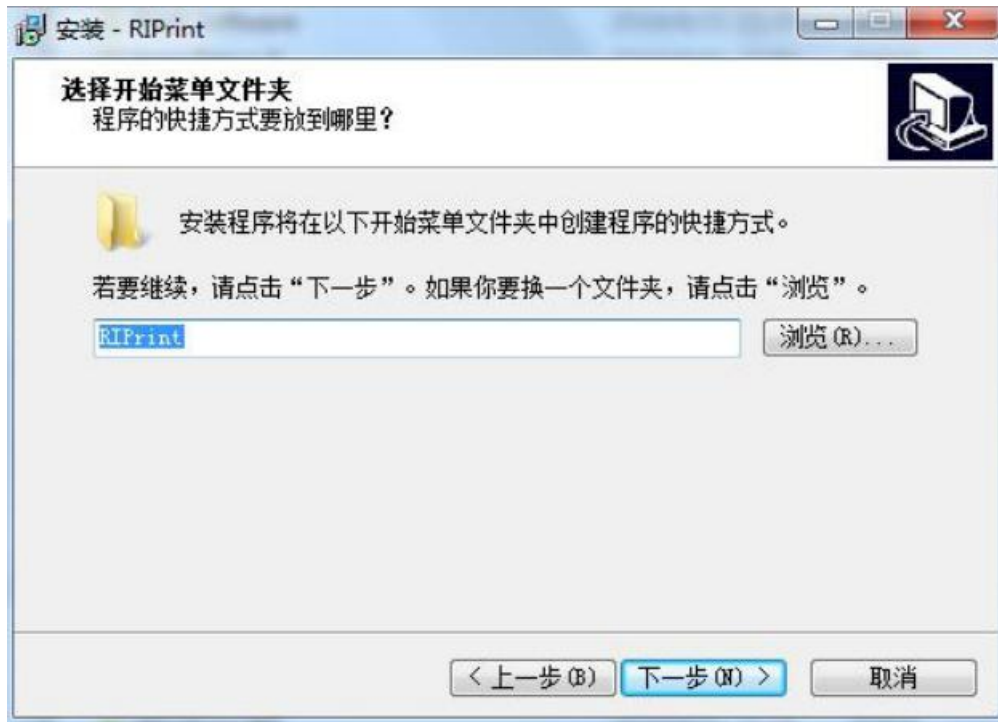
1.2.1 Unzip the software installation package into a file with the same name and run. exe file, click next



1.2.2 Select the path the software will install in Browse (about 200 M software installation size) and click Next



1.2.3 Select the folder where the installer's shortcut is placed in Browse, and click the next step directly in this step



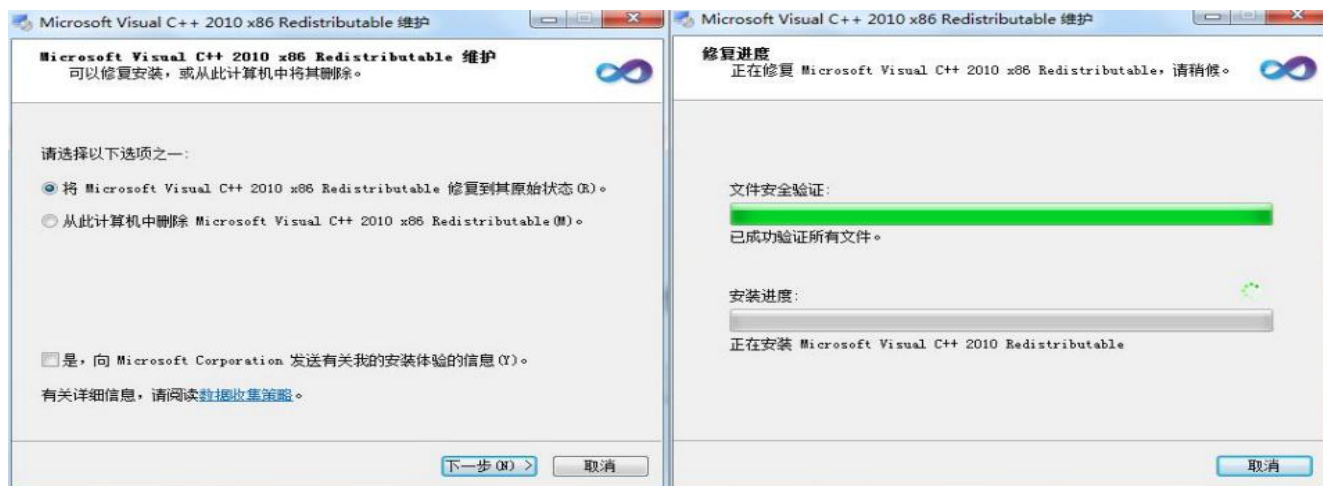
1.2.4 Select whether you want to create the shortcut icon and quickly start the image, do not recommend changing, go ahead



### 1.2.5 Click "Install"



1.2.6 Sharp print needs to run in C++ environment, so you need to install this environment, select "I have read and accept the license terms" and click install.







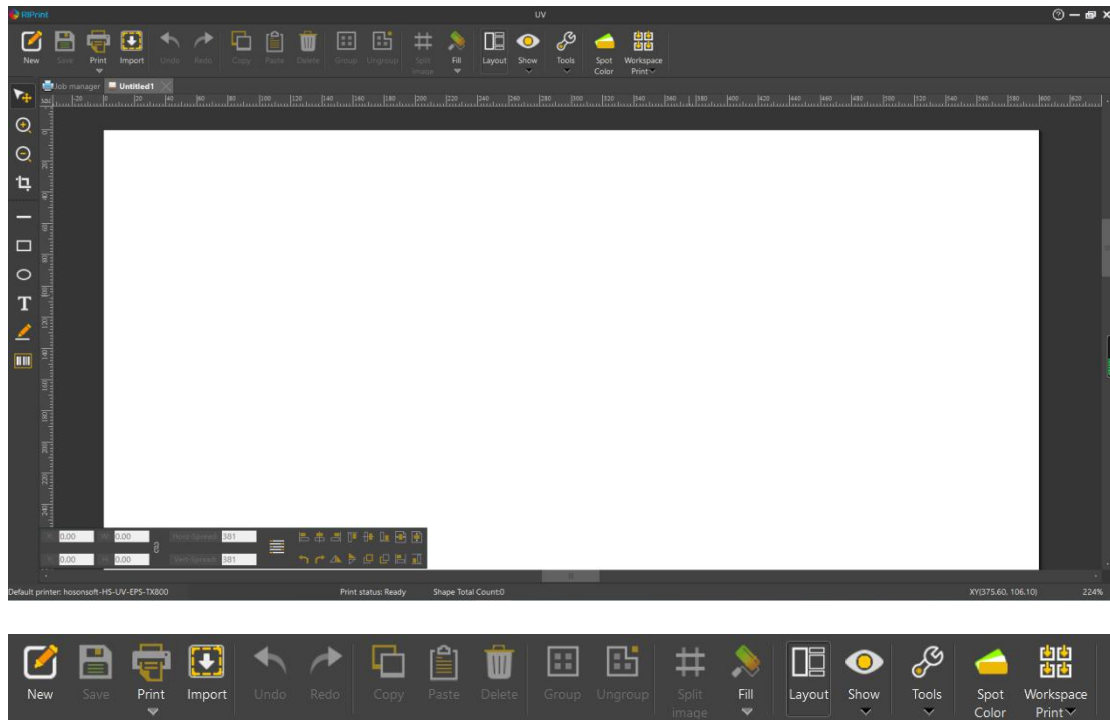
1.2.7 The installation progress bar shows that when the installation is complete, click finish and click finish.



# III. Software operating instructions

## 1. Basic operation of RIPrint software

### Sharp Printing Interface



From left to right:

New: New print canvas

Save: Save the Canvas

Print: Color the image, or sharp image

Import: Import pictures to print

Undo: Backback Steps

Redo: There are undo steps to redo to move forward

Copy: Copy pictures

Paste: Paste pictures

Delete: Delete picture

Combination: Combine multiple images

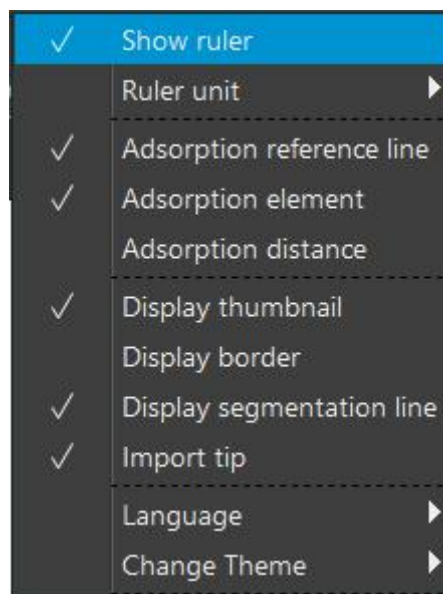
Disbanding: Disbanding multiple combined images into a single

Split Image: Split one image into multiple fragments

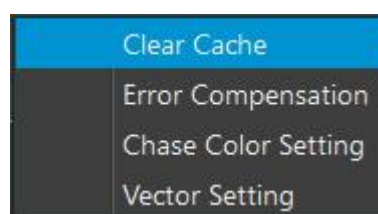
Fill: Use the box line in the toolbar to fill in other colors

Typography: Open the typesetting function after clicking

Display: display scale, scale unit, adsorption reference line, adsorption element, adsorption distance, display thumbnail, display border, display segmentation line, import picture prompt, language, change theme



Tools:



Clearing the cache is clearing the print management center file

Error compensation is a small gap between the output of the picture and

the actual print size

Color tracing settings are generally image color aberration, need to fine-tune

Job manager		Untitled1.rpp					
Task	Create date	Printer	Mode	Status	Progres	Time	Output
Untitled1	2020/09/21 ...	EPS-TX800	TX800-720x1080_12Pass_4C_2Bit_车贴	Stop	0%	00:00...	C:\Users\zhang\Desktop\112.prn
Untitled1	2020/09/21 ...	EPS-TX800	TX800-720x1080_12Pass_4C_2Bit_车贴	Stop	0%	00:00...	C:\Users\zhang\Desktop\111.prn

Click on the icon to display the function

Application of typesetting function

New Import Picture

Copy pictures

Paste multiple images

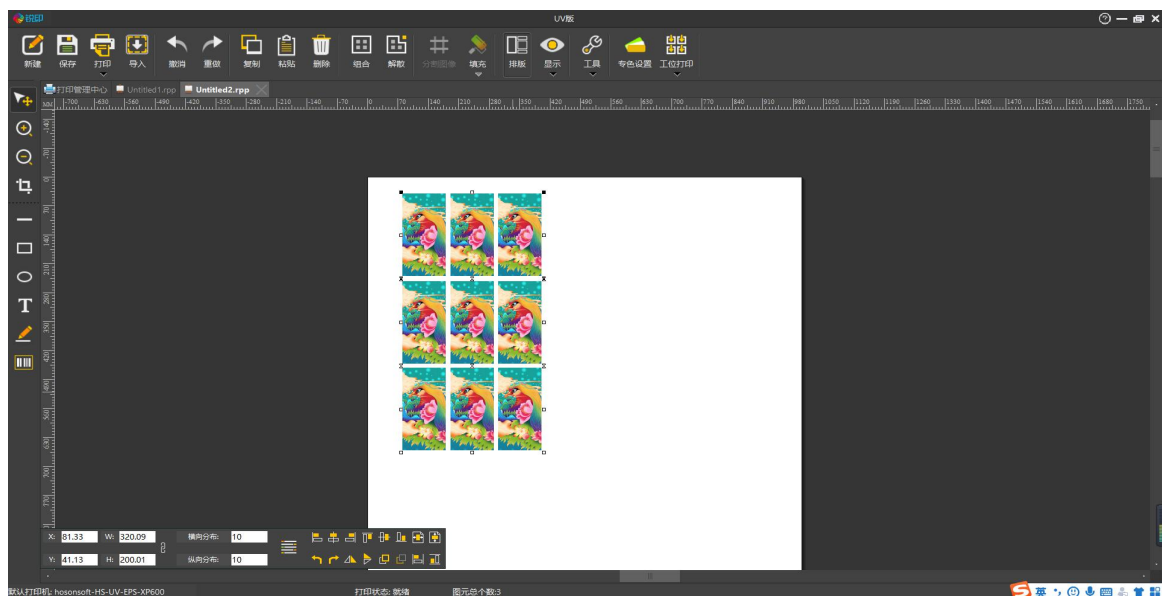
Box. Align the picture

Horizontal Spacing 10 mm Box Selection

Image Combination Right Alignment

Print pictures (finished

typesetting)



Specific operation please see: video teaching

RIP software spot setting

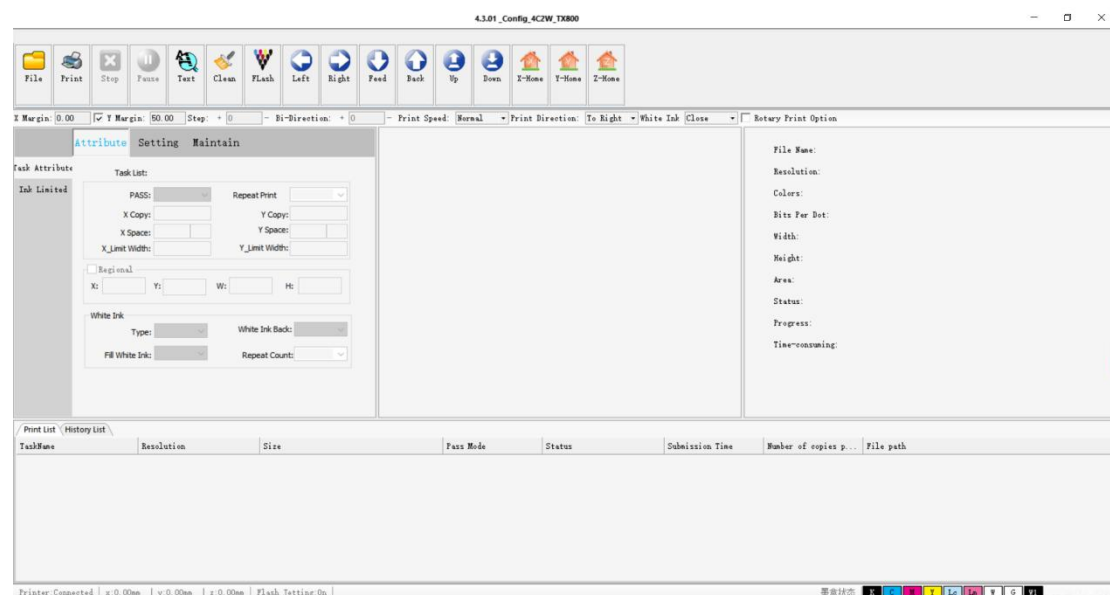
Open PS → select the file you want to map → click image → CMYK

mode → select print format with rectangle box tool, click channel → create new spot color channel, save file → open RIP software import do file well, click spot color setting → set spot color, click print (output file) complete spot color

See video for specific operation: video teaching

## 2. printing software operation instructions

### 2.1 Printing interface



### 2.2 Quick toolbar



From left to right:

file: put in RIP good print file (find RIP save path).

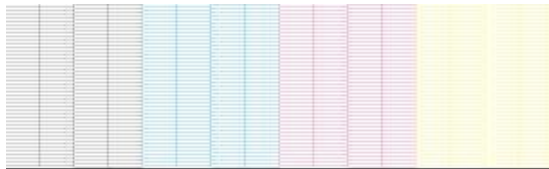
Print: Select the file to print under the task name and click the print machine to start the job.

Stop: Stop printing

pause: temporarily stop, can continue printing

Test: Test has nozzle status, horizontal calibration, vertical calibration, nozzle spacing calibration.

Sprinkler status: check the ink out of the spray hole. Sprinkler status diagram:



Horizontal calibration: check the left and right direction color and white color coincidence.

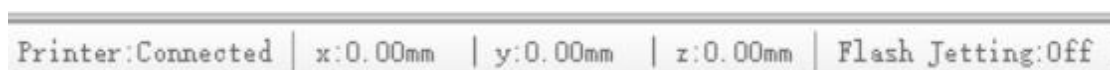
Vertical calibration: See if the front and back color coincide with white.

nozzle spacing calibration: distance between two sprinklers.

Cleaning: divided into ordinary and strength, generally with the ordinary all this way

to clean the nozzle,

Flash spray: Flash switch at the origin position of the nozzle (note that the software flash open in the lower left corner of the software) as shown:



Left: Left: Right: Right

Back Material: Move Feed Back: Move Forward

Platform move up: move up

Platform move

down: move down

X reset: the X axis is to control the left and right movement, reset to the right movement back to the origin, after clicking the nozzle can be automatically cleaned.

Y reset: the Y axis is controlled to move back and forth, and the reset moves back to the origin.

Z reset: the print platform moves down back to the origin.

## 2.3 Mission area:

Attribute		Setting		Maintain				
Task Attribute								
PrintList: 1111.prn								
Ink Limited	PASS:	8	▼	Repeat Print	1			
	X Copy:	1		Y Copy:	1			
	X Space:	0.00	0	Y Space:	0.00 0			
	X_Limit Width:	0		Y_Limit Width:	0			
	<input type="checkbox"/> Regional							
	X:		Y:		W:		H:	
	White Ink							
	Type:	Bottom		White Ink Back:	Close			
	Fill White Ink:	Close		Repeat Count:	1			

## Task Settings - Task Properties:

Number of Pass: RIP software selects printed curves

Number of repeated prints: how many times to print.

Horizontal amplitude: how many pictures are printed X the axis

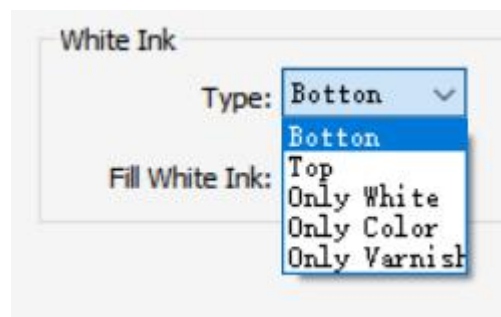
How many rows are printed Y direction

Transverse interval: the interval between two graphs left and right

Longitudinal interval: the interval between two rows of graphs

Area Printing: Intercepting parts that need to be printed

Type of white ink:



White on the bottom: White ink on the bottom, color on top

Color under: color under, white cover, back print will open ,(usually printing glass, acrylic crystal and other transparent materials need reverse printing)

Print only white, not color

Colourful ink: No printing white, only printing color (usually white



material)

Bottom smooth oil cover: Color surface with a layer of smooth oil

Number of white ink prints: how many layers of white ink prints

Task setup - ink cut control:

The screenshot shows a software interface for task setup, specifically the 'Attribute' tab. The interface has three tabs: 'Attribute' (selected), 'Setting', and 'Maintain'. On the left, there is a sidebar with 'Task Attribute' and 'Ink Limited' sections. The main area displays a control for 'Ink Limited' with a checked checkbox. Below this, there are ten vertical sliders, each with a color bar at the top and a percentage value above it. The sliders are labeled K, C, M, Y, Lc, Lm, Ly, Lk, W, and V. The K, C, M, Y, Lc, Lm, Ly, Lk, and W sliders are currently set to 0%. The V slider is set to 70%. Each slider has a blue bar at the top and a black bar at the bottom. A 'Set Default' button is located at the bottom right of the main area.

Color	Percentage
K	0%
C	0%
M	0%
Y	0%
Lc	0%
Lm	0%
Ly	0%
Lk	0%
W	0%
V	70%

Cut ink control: will cut ink control tick, can only reduce color ink, can not increase color ink, click set to default value, all pictures will reduce the corresponding ink.

## Parameter setting

### Parameter Settings - Basic Settings:

Selection of materials: for different models of different media users can create several commonly used media, parameters calibration and save, the parameters will remain in the software.

Flash spray frequency: Spill spray frequency amplitude

Cleaning: divided into print cleaning, standby cleaning. Select standby cleaning, no change, standby flash spray can effectively protect the nozzle.

Cleaning mode: Select flash spray

Wash flash spray

frequency: set between 16 HZ~32 HZ

Cleaning time: General cleaning

Free time, flash

time: no change

Eclosion amplitude: adjusted to 100%.

Seamless Eclosion: Eclosion mode when printing a cylinder.

Color strip: the role of the color strip is to protect the sprinkler head, in the work only print a single color, other color channels do not produce ink, the spray head will be subjected to reverse irradiation for a long time, resulting in the spray hole ink curing, blocking the nozzle, color rich all color channels can be used without color strip.

Spacing: Distance width from color strip to picture: actual width of color strip

Location: There are four options to close, the left side of the graph, the right side of the graph, the two sides of the graph, generally use the left side.

Spray head cleaning: You can move the car to a distance while printing pause and open the pump

## Parameter Settings - Extended Settings:

Attribute **Setting** Maintain

Param  
Extended

Head select

Print Mode  
Middle\_0

From Each Head To Head1 Horizontal Distance

Head1: 0  
Head2: 0  
Head3: 0  
Head4: 880

Print

Head Distance Right

Head1: 0  
Head2: 0  
Head3: 0  
Head4: 880

Print

From Each Head To Head1 Vertical Distance

Print 0  
Print 0  
Print 0  
Print 0

Print mode: select the size of the point, generally choose 1 point bit

Transverse distance from applicator to applicator 2: Colors between left and right, mainly white and colored

Longitudinal distance of each nozzle to nozzle 2: set between front and back, also between white and color

system maintenance - voltage setting: voltage generally does not need to be set, waveform file has been debugged.

Attribute Setting
Maintain

Voltage Set

Calibration

Nozzles Adjust

Voltage Set

CH01	CH02	CH03	CH04	CH05	CH06	CH07	CH08
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Refresh
Setting

## System Settings - Calibration Settings:

Attribute Setting
Maintain

Voltage Set

Calibration

Nozzles Adjust

Bi-Dir Calibration

Normal
-15

Print

Step Calibration

1 Pass
0.00
0

Print

Color Calibration

	CH01	CH02	CH03	CH04	CH05	CH06	CH07	CH08
G00	K	C	W	M	W	Y	Close	Close
↑↓	0	0	0	0	0	0	0	0
<--	0	0	0	0	0	0	0	0
-->	0	0	0	0	0	0	0	0
G01	Close	Close	Close	Close	Close	Close	Close	Close
↑↓	0	0	0	0	0	0	0	0
<--	0	0	0	0	0	0	0	0
-->	0	0	0	0	0	0	0	0

L\_Print
R\_Print



Name of document: File name for current task

Resolution: Accuracy of current task files

Number of colors: Number of colors for current task (7 colors for KCMYLCm+W 5 colors for KCMYKCMYLCm+W 5W 8 colors for light oil)

Number of ink dots :2 gray mode

Width: Width of current task

Height: Height of current tasks

Area: Total area of current missions

Status: Print status of current task

Progress: Percentage of current tasks completed

Print Time: How long does the current task print total

#### 4. Location, print mode:



X white edge: position X axis left and right

Y white edge: locate the front and back direction of the Y axis, pay attention to the location must check the Y white edge, each printing will return to the origin of the Y axis for positioning printing. If you don't check, you'll only print it back at the Y axis.

Step, two-way do not do settings.

Printing speed: low speed printing, medium speed printing, high speed printing three printing mode options

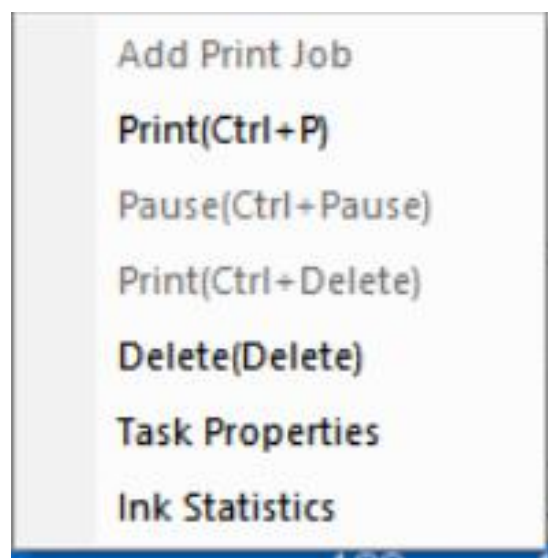
Printing direction: one-way to left, one-way to right, two-way printing, generally choose one-way to left, has been calibrated good mode, do not use two-way mode printing, printing effect is poor.

White ink: open or close, after opening can print white ink, closed white ink can not print

Wine bottle: printing cylinder material, when there is a need to print cylinder, check directly, put into the printing cylinder equipment.

Print List		History List	
TaskName	Resolution	Size	Pass Mode
1111. prn	720 x 720	150mm x 119mm	8
112. prn	720 x 1080	199mm x 152mm	12

Click on the file and right-click to pop up the following options:





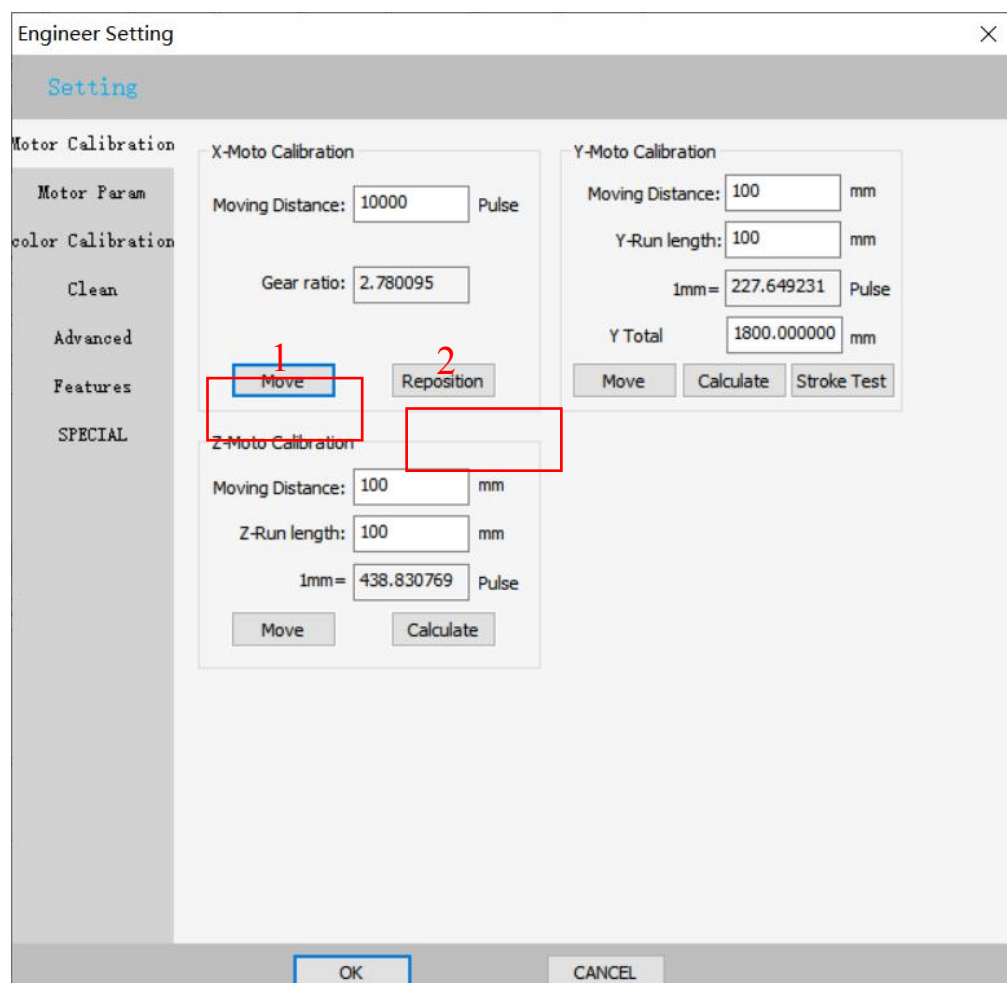
If the picture isn't completely RIP, there's a part of it when it opens directly

Engineer Settings: Press "Ctrl+T" Open Setup Interface

Motor calibration

X motor calibration:

Click ctrl+T to enter Engineer Settings, click Move  and then reset, X axis calibration completed.



Y motor calibration: first make a picture of 10 cmX10cm, then print it out, after measuring the size between, input the measured size into the actual moving distance, then click on the calculation, test several times more, until there is no error.

Engineer Setting

Setting

Motor Calibration

Motor Param

Color Calibration

Clean

Advanced

Features

SPECIAL

X-Moto Calibration

Moving Distance: 10000 Pulse

Gear ratio: 2.780095

Move Reposition

Y-Moto Calibration

Moving Distance: 100 mm

Y-Run length: 100 mm

1mm= 227.649231 Pulse

Y Total 1800.000000 mm

Move Calculate Stroke Test

Z-Moto Calibration

Moving Distance: 100 mm

Z-Run length: 100 mm

1mm= 438.830769 Pulse

Move Calculate

OK CANCEL

Color sequence of ink bag (engineer set calibration setting)→

H00 for spray head first column spray hole flash spray color, G00 for spray head 1, G01 for spray head 2.

The color sequence channel corresponds to the actual color channel of the ink bag,

Engineer Setting

Setting

Motor Calibration

Motor Param

Bi-Dir Calibration

Low -37

Step Calibration

1Pass Step: 180

Color Calibration

	H00	H01	H02	H03	H04	H05	H06	H07
G00	K	C	W	M	W	Y	Close	Close
G01	K	C	W	M	W	Y	Close	Close

OK CANCEL

Cleaning parameter configuration (engineer sets cleaning settings)→

Engineer Setting

Setting

Motor Calibration

Motor Param

Normal

Pump Ink Time1: 500 ms

Pump Ink Time2: ms

Pump Ink Time3: ms

After Pump Ink Wait Time: 5000 ms

Flash Time: 5000 ms

Pump Waste Ink Time: 6000 ms

Free Pump Ink Interval: 120000 ms

Free Pump Ink Time: 2000 ms

Pump Ink Times: 1

MOTO\_X

Flash Position: 10 mm

Move Out X Scraping Position: mm

Move Out X Scraping1 Position: 30 mm

Move Out X Scraping2 Position: mm

Move Out X Scraping3 Position: mm

Move Out X Scraping4 Position: mm

Moisturizing Position: 0 mm

InkStack

Flash Height: 0 Pulse

Pump Ink Height: 0 Pulse

Scrap Height: Pulse

Scrap

Move Out Scraping1 Distance: Pulse

Move Out Scraping2 Distance: Pulse

Move Out Scraping3 Distance: Pulse

Move Out Scraping4 Distance: Pulse

MOTO\_Z

Flash Height: 0 mm

Pump Ink Height: mm

Carriage keep wet position: 0.00 mm

Scrap Height: mm

HardWare Config

OK CANCEL

## 5. Operational operations

1. Print test strip :

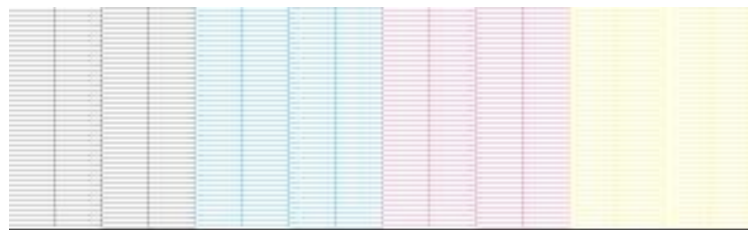
1.1 click flash spray

1.2 click clean spray nozzle

1.3 test view spray nozzle ink state



Sprinkler status bar:



See video for specific operation: video teaching

2. positioning box printing process:

First of all, PS to do a good print size → Save pictures → It's a good layout  
Adjust the printing height and set X、Y axis position

See video for specific operation: video teaching

3. Mirror Print Process:

Print the Position Box → Put the material in the box → Select Color

See video for specific operation: video teaching

## **IV.Treatment of frequently asked questions**

1. A lot of nozzle broken needle: click flash spray, ordinary cleaning and then print status bar view, if the effect is not ideal, click on the Y axis reset, the head will be moved to the middle with cotton swabs press broken needle more ink bag, slightly wipe. Then do four-color printing, more printing several times the effect will be better.
2. Fly ink around the material: properly reduce the printing height, pay attention not to hit the head, printing speed properly slow down
3. Print the picture blur, first see if the original picture blur, then see if the machine X axis Y axis calibration.

## **V. Routine maintenance of machines**

UV printer nozzle maintenance is critical, there are now several UV printers with automatic cleaning system, nozzle cleaning compared with UV printer nozzle ink overnight stop, nozzle life is very different.

The equipment must clean the spray head before stopping the power off, and put the spray head on the ink saving, which can protect the spray head to moisten the spray head.

Grating strips have dust, ink particles need to be wiped clean with alcohol (there are debris block effect printing effect).

The guide rail is regularly lubricated, first wipe the dirt of the guide rail clean, then pour the dustless cloth into some lubricating oil, slightly wipe the guide rail (not too much, too much easy to drop on the material, too little can not isolate oxygen, easy to oxidize rust).