



POLAROID EVEREST 3.2

UV Printer

USER MANUAL





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Ricoh GEN6 Printhead

1. Safety Notes

The purpose of this paragraph is to provide you with guidelines on the use and safety of Polaroid Everest Hybrid G6 during repair and service to avoid personal injury or damage to the printer.

1.1. Handling UV Curable Ink

WARNING: Consult the appropriate Material Safety Data Sheets (MSDS) before handling UV curable ink.

WARNING: UV ink contains some chemicals harmful to eyes and skin. Always wear safety gloves when handling UV ink. In case of accidental contact, rinse immediately with plenty of water and consult a doctor, if required.

WARNING: UV ink contains chemicals harmful to eyes and skin.

1. Always wear splash-resistant nitrile safety gloves when handling UV ink. (Only safety gloves for single use are allowed). For more information about the suitable safety gloves (Nitrile Gloves, BARRIER hand gloves, VIRTEX 70-700 blue gloves, NEOTOUCH green), refer to the safety kit.
2. Always wear protective glasses when refilling or changing the ink.
3. Avoid inhalation of the ink.

WARNING: Be aware of the waste disposal and regulations that bear on UV curable ink. Always follow the instructions on the label of the ink bottle and the safety instruction sheet(s) enclosed in the starter kit. For more information concerning the starter kit, refer to the Pre-Site Survey.

WARNING: Never mix non-UV and UV curable ink waste.

CAUTION: Do not use ink other than the ones recommended by DOCAN. Other ink may cause nozzle clogging or other serious problems to your printer.

CAUTION: Respect the color sequence of the ink supply system. The borders of the housing of the ink supply system are colored corresponding the ink (K, C, M, Y, Lc, Lm, White, varnish, Storage Flush) they require. Each ink bottle is fitted with a colored label indicating the color type.

1.2. UV Radiation

Ultraviolet radiation (UV) has a high photon energy range and is particularly hazardous because there are usually no immediate symptoms of excessive exposure.

Always wear UV protective glasses while working on the shuttle.

WARNING: UV light can cause harmful damage to eyes and skin. Therefore, never look into UV light without wearing protective glasses. Never expose your skin to UV light.



1.3. Electricity

- WARNING:** Do not touch the DOCAN FR3210M Hybrid or any electrical components when your hands are wet.
- CAUTION:** Avoid other electrical equipment near the printer. Electronic waves can cause wrong operation or can shorten the life span of the printer.
- CAUTION:** It is recommended to install the DOCAN FR3210M Hybrid far away from high-voltage cables and/or high-power consumption equipment to avoid interference which influences the printing process.
- CAUTION:** Always make sure the power cable is properly connected.

1.4. Maintenance Safety Instructions

- WARNING:** Do not touch the print head during printing or maintenance actions. Do not place any obstacle on the print table which can hinder the shuttle during movement.
- CAUTION:** Regular inspecting and cleaning of the DOCAN FR3210M Hybrid is required to help to prevent machine damage and printing difficulties.

1.5. MSDS Contents

- Composition/data on components.
- Hazard identification.
- First aid measures.
- Firefighting measures.
- Accidental release measures.
- Handling and storage.
- Exposure controls and personal protection.
- Physical and chemical properties.
- Information on stability and reactivity.
- Toxicological information.
- Ecological information.
- Disposal considerations.
- Transport information.
- Regulatory information.

1.6. Overview Safety Labels

- Always take into account the safety labels provided on the inside and outside of the printer. They may appear throughout the different chapters of this manual. A brief overview of these labels and their meaning is given below.
- Burn Hazard:** Warning label to avoid hot elements in the printer that are marked with this label.
- Switch OFF the Finger Warning Label:**



The following labels are located on panels or components that enclose gears, rollers or moving parts that could potentially harm fingers and hands:



Electric Shock:

1. Opening or removing covers that are marked with the following flashing arrow may expose you to an electrical shock.
2. Make sure the power is switched off before opening areas marked with the label.



UV warning labels:

Never look into UV light without wearing protective glasses.



Free accessories and tools come with the machine

	
Tool box	Wipe (cleaning printhead)
	
Hexagon wrench	Cotton (cleaning printhead)
	
Spanner	Photoprint rip software
	
Nipper pliers	Screw (some)
	
Diagonal pioers	Ricoh G6 data cable(some)
	
Big Cross screwdriver	
	
Big Straight screwdriver	
	
Small Cross screwdriver	Ricoh G6 adapter board(some)
	
Small Straight screwdriver	



1. Polaroid Everest Hybrid 3.2 Installation Preparation Sheet: Operator shall know how to use simple image software. (Photoshop, Illustrator, coreldraw)

1. Installation room shall be equipped with air conditioner, and keep temperature between 20°C and 30°C, moisture between 40% and 60%.
2. Installation room shall be sealed enough to avoid dust coming inside, the floor shall be flat enough, and space around machine shall be at least 100cm.
3. Installation room shall be equipped with separate single AC 220V power control box, power line shall be at least single stranded-6 mm², and rated current of air switch shall be at least 63A.
4. It is required to separately embed earth rod for machine, UPS, and Computer. Earth rod shall be at least 1.5m below ground.
5. It is required to equip at least AC 220V 10KVA UPS. UPS will be helpful when meet power problem.
6. Computer configuration shall be: CPU Intel Core i7, Video/graphics card 2G, Windows 7-64 bit or Windows 10-64bit, Memory 16GB, Solid State Disk 256GB, and Hard Disk 1TB, USB 3.0 connector
7. Air compressors: work pressure 8 bar, tank 25L.

2. Machine unloading requirements and unpacking steps

- 2.1 Use the forklift truck to unload the machine wooden box
FR3210M Teardown diagram
Photo 1: Use 2 forklifts (6 tons) to take out the wooden box
Photo 2: Steps of disassembling the wooden case (first use a forklift to disassemble the top cover); Screw picture
Photo 3: Removal of peripheral boards
Photo 4: Use a forklift to lift the machine and accessories (Continue to rack)



Notice

1. If you remove the side panels first, the top becomes too heavy and you get this result with the risk to damage some part of the machine
2. Remove all four side covers. The machine comes sealed in a blue/silver bag; cut it from bottom so that it can be used as a dust cover for the engine in the initial days if the room is not ready. Take the extension tables away making sure the brakes are OFF so that they can be wheeled away.

2.2 Assemble the refill rack

Photo 1: Find the supporting leg and beam of the refill rack, and erect them in reverse to facilitate installation. Install screws in the position of the red line

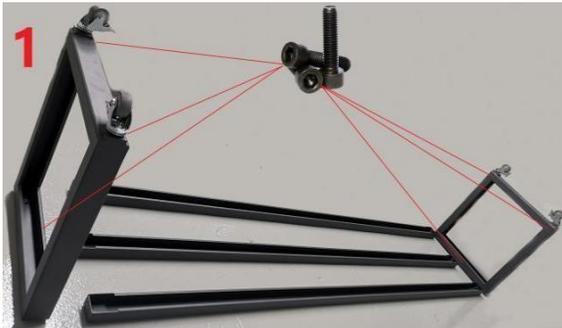
Photo 2: The 3 beams are the same, corresponding to the 3 positions installed into the support pair

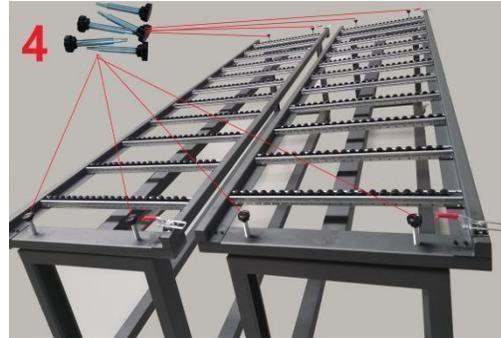
Photo 3: Find the refilling rack panel

Photo 4: Install the feeding rack panel on the supporting leg, and connect the panel to the supporting leg with large manual screws (install at the position of red line)

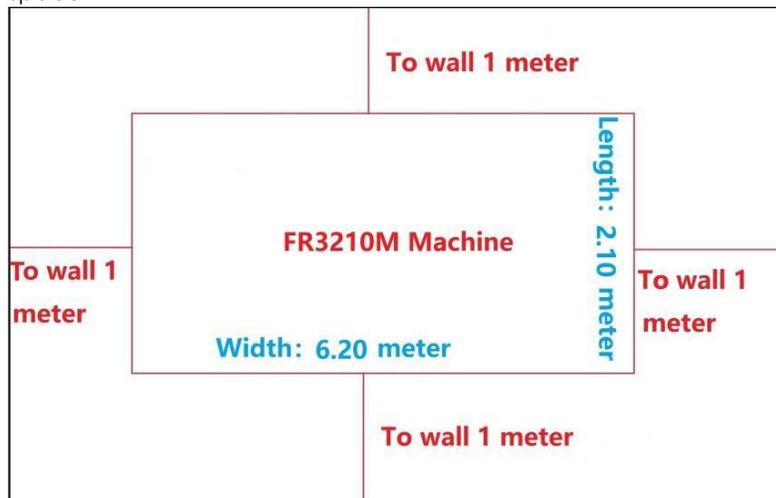
Photo 5: Adjust the feeding rack and the height of the machine with big manual screws, and then apply red clasp to the machine (front)

Photo 6: Adjust the feeding rack and the height of the machine with big manual screws, and then apply red clasp to the machine (back)





2.3. The customer's installation machine workshop is required to have 1 meter each around the activity space



2.4. All the feet of the machine need to be placed in a horizontal position, using a level to adjust all the feet of the machine level (four sides first, then the middle)



Notice: Using the "22 caliber "spanner that comes with the engine in the accessory box, put the feet down. When the machine is leveled, lock the counter nut on the feet.



Notice: For FR3210M there are 10 feet at the front and 5 at the back: start level the printer by lower the 5 corner feet until the 5 wheels are not touching the floor anymore, this is the minimum height. Now start leveling the printer using the infrared ray levels but do this only in the 5 corners of the printer and always bring the lowest area higher. Once the printer is level bring the other feet down so that they touch the ground but do not influence the levelness. Do not put more strain on these middle-feet as they may bend the frame and table upwards. Fix the locking nuts of the all feet to give extra stability.

2.5. Up front carriage, take out protect carriage froth

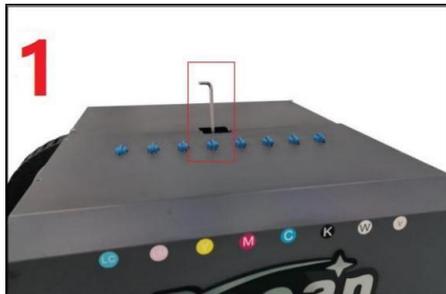
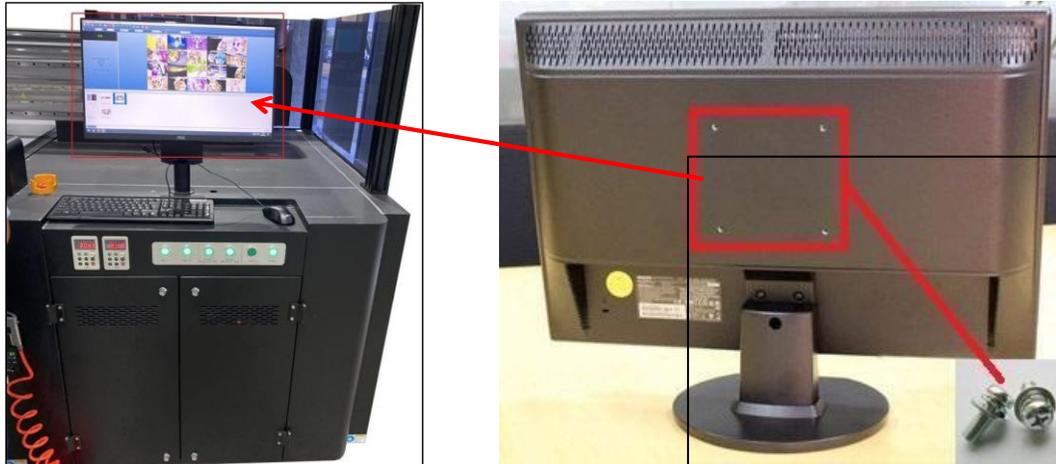


Photo 1: Turn the No. 8 hexagon wrench clockwise to raise the head to prevent scratching the table

Photo 2: Take out protect carriage froth, move carriage to left side home

3. Install machine mechanical part and computer

3.1. Install computer



Notice: Install screws with nuts through 4 holes on the back of the LCD monitor

3.2. Install LED lamp chiller and signal



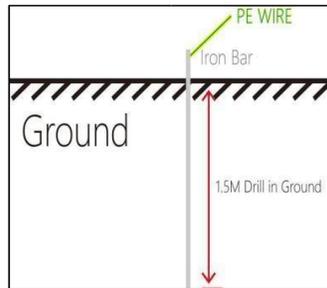
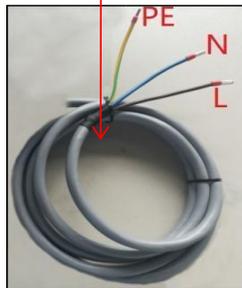
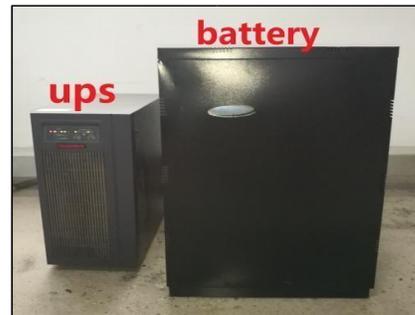
Notice: chiller pipe the same as two, can connect the in1 and out1 sides, signal connect to alarm outlet





Notice: Input from machine cooling liquid (8 KG/2bottle), and push switch power button running chiller

3.3. Customer machine need use UPS (10KVA) power and battery, power line 6mm² and 1.5M Ground



63A air switch is required



3.4. Connect Air compressor setting to (8kg/c m²)
(8kg/c m²)



8x5mm Air Pipe

Notice: Air compressors: work pressure 8 bar, tank 25L.



Notice: Purchase the above connector accessories for standby



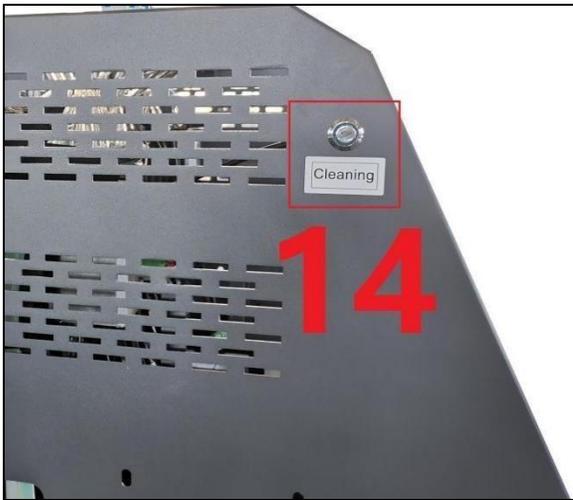
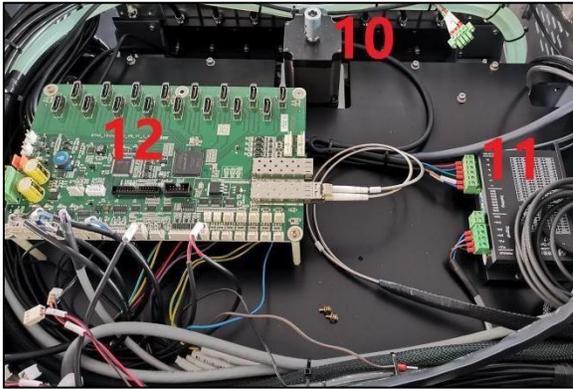
4. Machine part and name



1	Carriage LED lamp
2	Raster and belt
3	Feeding, collecting system and switch
4	Emergency, switch

4.1. Carriage part

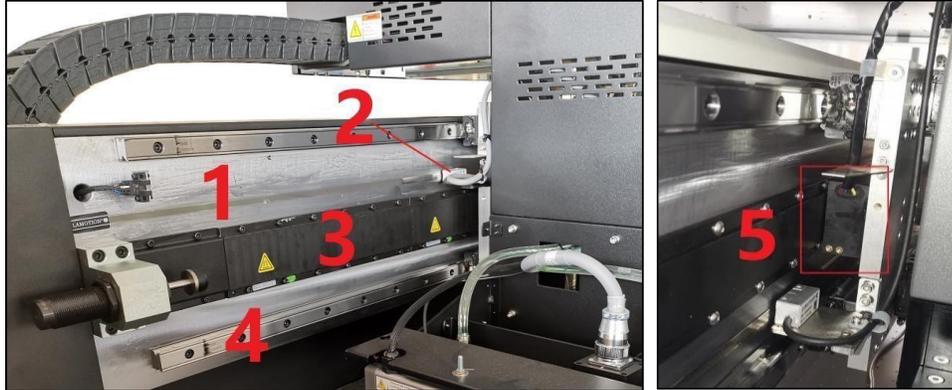




1	Negative pressure valve (Vertical with open, crosswise with close)	10	Z axis motor
2	Ink sun-tank (temperature setting to 40°C)	11	Z axis driver
3	Color negative pressure box	12	Carriage board
4	White negative pressure box	13	Carriage board ink signal 1—LC, 2—LM, 3—Y, 4—M 5—C, 6—K, 7—W, 8—V
5	Negative pressure meter (color)	14	Print head cleaning button
6	Negative pressure meter(white)	15	Except static electricity
7	G6 head adapter board	16	Anti-collision button
8	Disk filter	17	LED lamp
9	Printhead		



4.2. X axis linear motor



1	Lamotion strip	4	X axis guide rail (THK)
2	Lamotion reader	5	Linear motor (Active)
3	Linear motor (Stator)		

1. Remove the protective metal cover of the linear motor before starting, (most printer factory has done this job), and check whether there is iron dust attracted on the surface of the linear motor, need to remove the dust and particles and clean the surface).
2. Before starting the machine, check the stator part of the linear motor on the back of the head carriage to ensure no dust, screws, iron dust (remove dust and clean the surface).

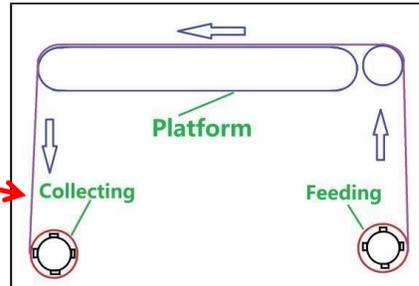
4.3. PIN media



You can move the PIN locator to the left, after positioning the material, move the PIN locator back to the right



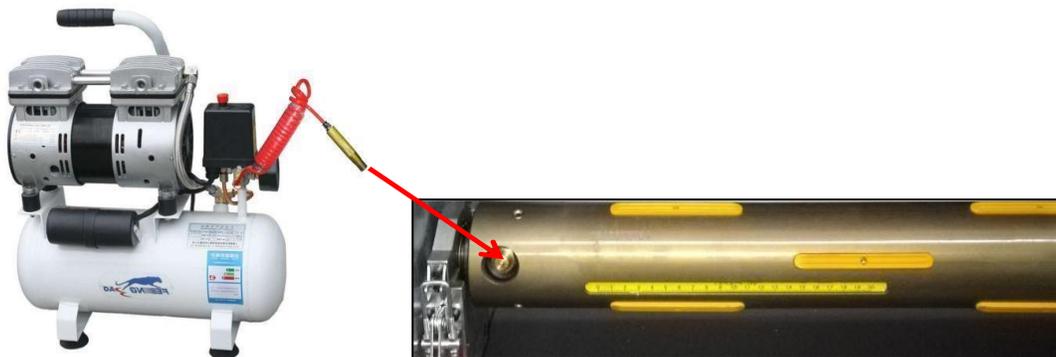
4.4. Feeding, collecting system and switch



Material installation diagram



Notice: Front and back the FWD conversion of the feed governor REV need to press the STOP key in the middle, in order to switch the feed and feed rod positive rotation and reverse



Notice: According to the schematic diagram, inflate the front and rear air inflation axis with the pneumatic nozzle tool, so that the yellow area bulges according to the clamping material



4.5. Emergency button and switch panel

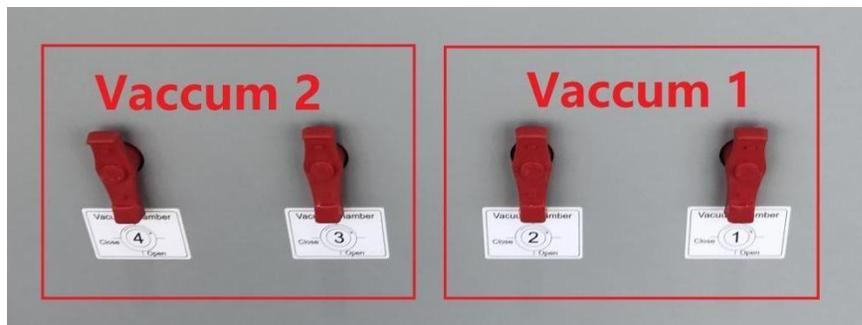


1	Emergency switch	6	Front pressure roll
2	Vacuum adjust 1	7	Behind pressure roll
3	Vacuum adjust 2	8	LED light box
4	Vacuum switch 1	9	Machine power light
5	Vacuum switch 2		

4.6. Vacuum system adjust

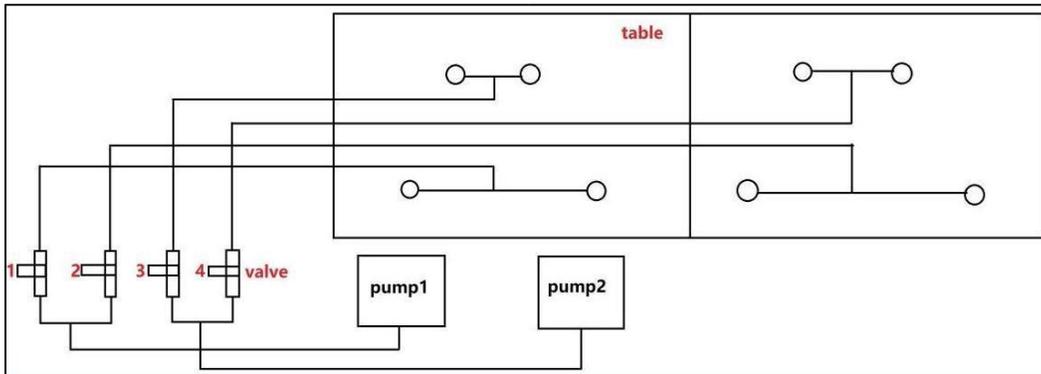


Notice: Open the control panel Fan1 and Fan2, press the run key to open the vacuum pump, and adjust the suction size with the adjustment button



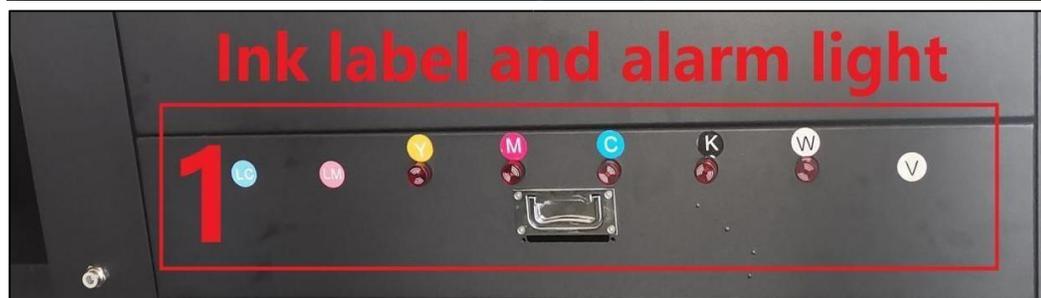
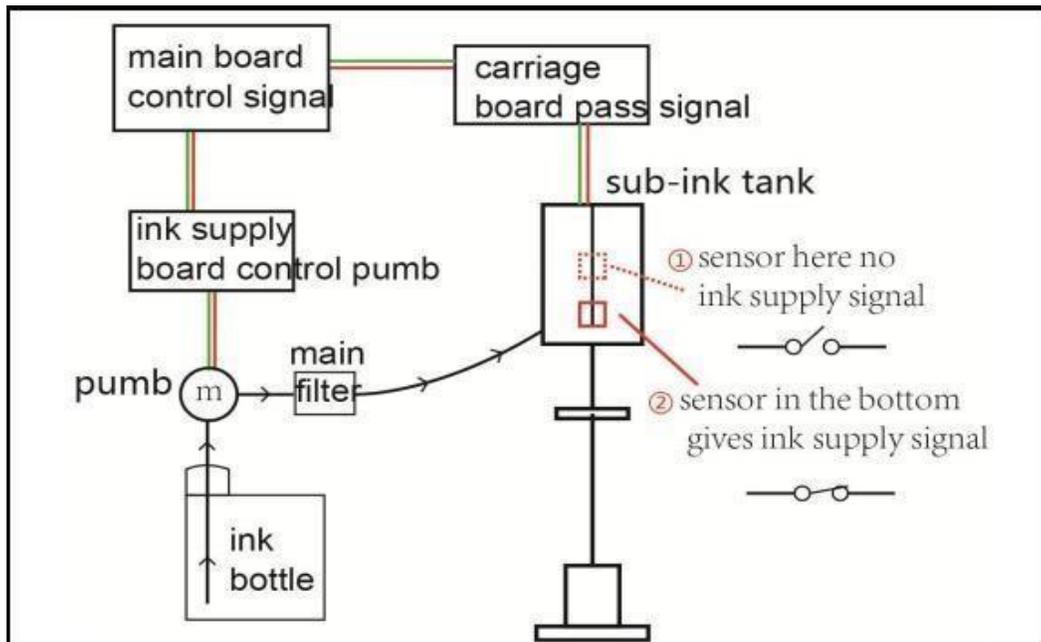
Notice: Vertical with open, crosswise with close





Notice: The suction area is shown in the figure above

4.7. Ink system





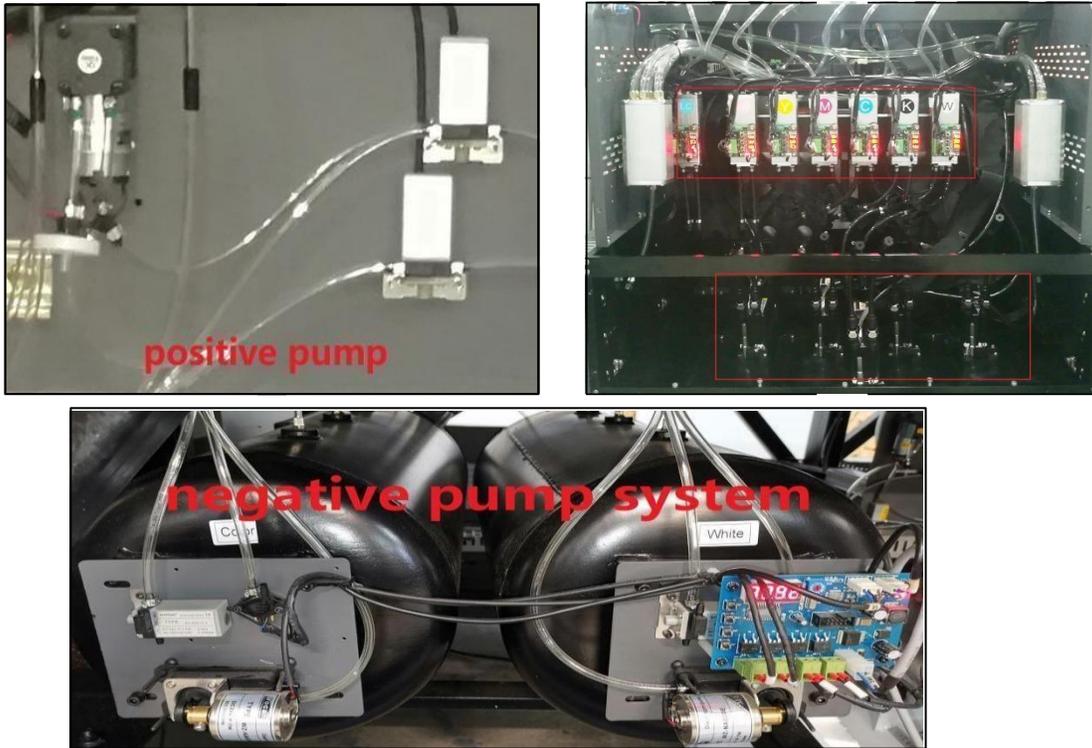
1	Ink label	5	Main filter (1 year change)
2	Ink box (keep full)	6	Ink sub-tank (heat set 40°C)
3	Air filter	7	Printhead
4	Ink pump		

Notice: The ink supply system needs to drain the cleaning fluid before ink is installed (the ink supply system has been cleaned by circulating the cleaning fluid in the factory)



4.8. Negative pressure system





Notice: The color/white negative pressure is initially set at about -3.0, which needs to be set according to the altitude, temperature and humidity of the region. The specific Settings will be described below.

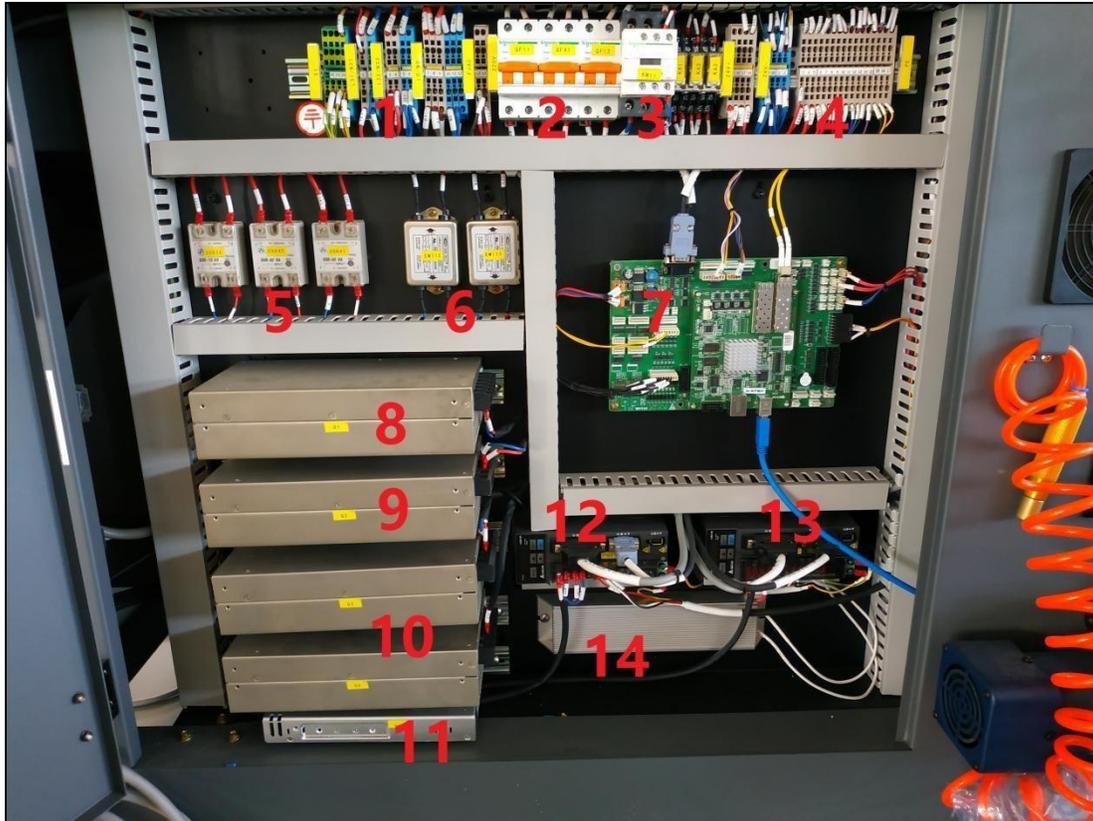
4.9. LED lamp adjust



Notice: The LED lamp power can be adjusted according to different materials (0-100%), and the printing platform has a water-cooling system, so that the LED power is not too high and the material is deformed



4.10. Electric system



1	220V AC area	8	24V power supply box (Not subject to emergency stop control) Negative Pressure, cleaning button
2	power switch (Main,driver,vacuum)	9	24VA (Controlled by emergency stop) main board, carriage board, head adapter Board, X Y driver
3	A.C.contactor	10	37V (Printhead transfer board power supply)
4	24V DC area	11	12V (front side LED light box)
5	Solid-state relay	12	Y axis servo driver (Y belt)
6	Power filter	13	X axis servo driver (liner motor)
7	Main board (USB3.0connect to PC)	14	Retrogradation resistance

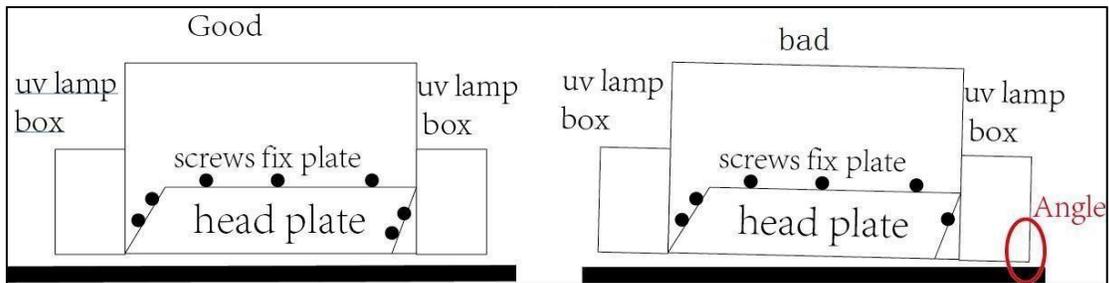
5. Install printhead

- 5.1 Adjust the bottom plate of print head, and keep 2MM from the bottom plate to the table, Both sides of the LED lamp and the anti-crash button panel need to be consistent with the printhead floor.



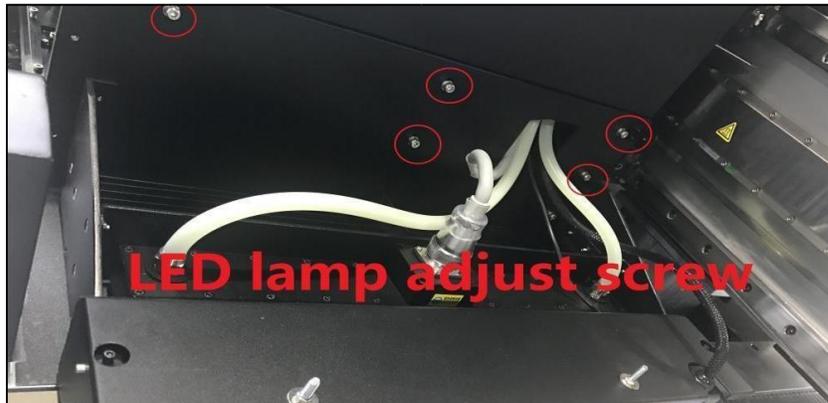


Notice: Using 6 2mm COINS (or COINS of the same thickness), place each on 6 corners of the floor and adjust to the same height (front and back the same way)



5.2. Adjust LED lamp up and down





Notice: Anti-crash button panel is also adjusted with COINS (plate and anti-collision height)

5.3 Install printhead

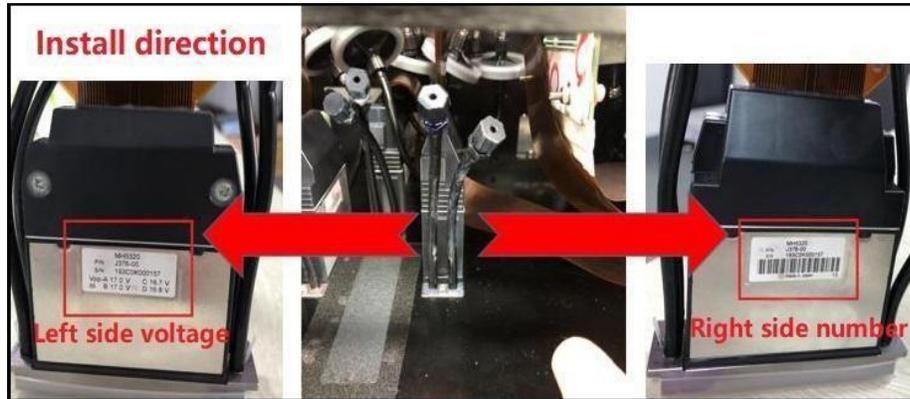


Notice: The printhead body and the data line are separate and need to be connected, the two triangles need to be mounted on the same side and clamped, If you install it backwards, it won't fit in. Do not strain so as not to damage the nozzle circuit

Printhead information:

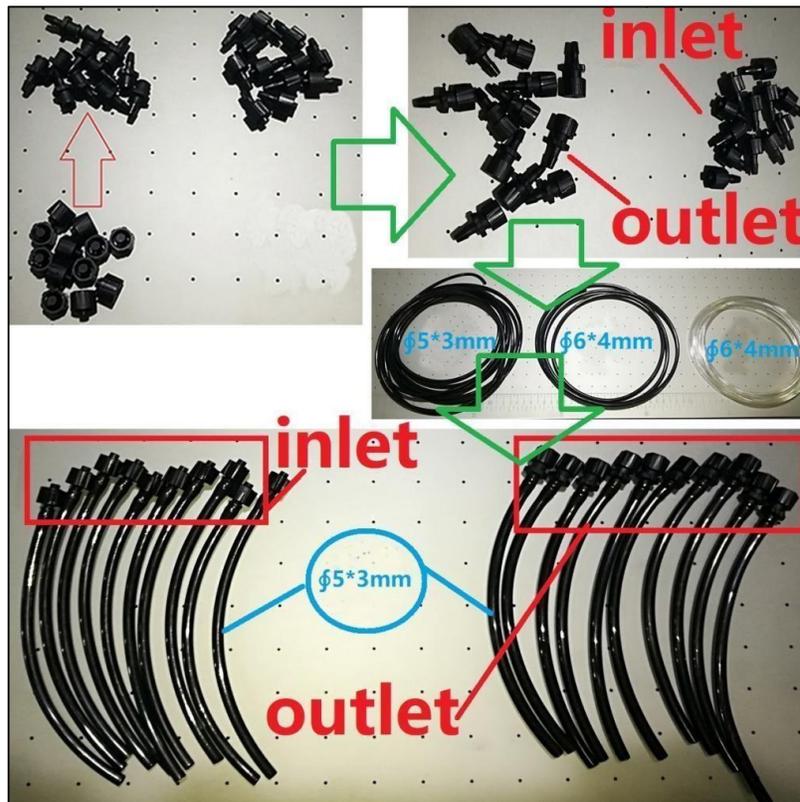
1	Nozzle model	MH5320
2	Nozzle width	54.1mm (2.1")
3	Number of nozzles	1280 (4x320 channels)
4	Dpi	600
5	Max jetting frequency	50kHz
6	Drop volume	5-15PL
7	Cable type	Detachable cable





Notice: DOCAN install printhead, voltage label side to the left, printhead bar code to the right

5.4. Connect output air pipe and joint



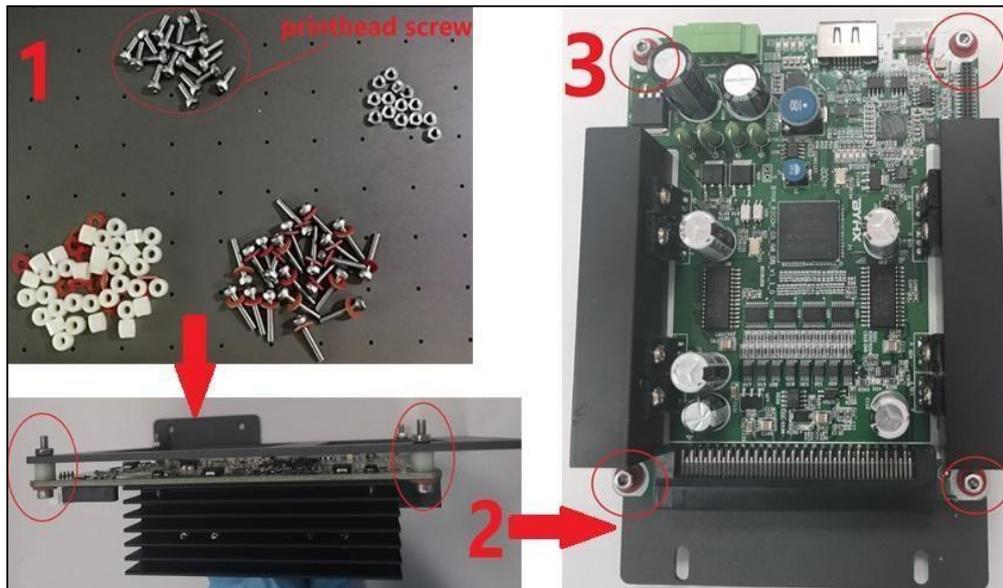
1. Use of the nozzle into the ink pipe diameter $5*3\text{mm}$, the length is tailored according to the distance from the nozzle to ink sub-tank
2. Use the nozzle out of the ink pipe diameter $5*3\text{mm}$, Cut the length about 15CM



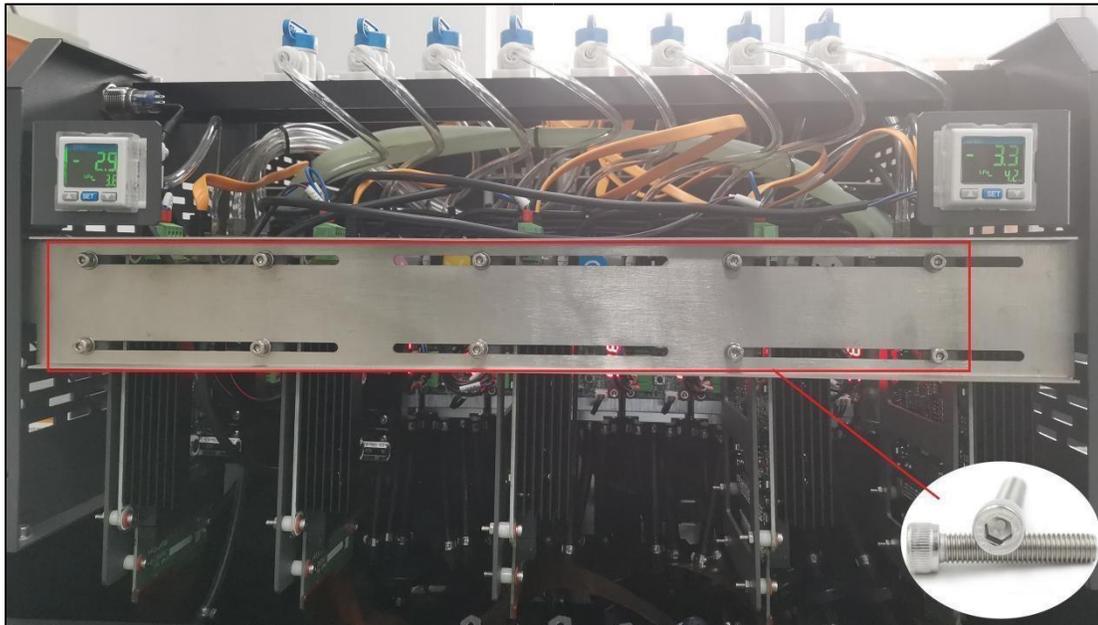


Notice: According to the diagram, the pipe should be the same length to reach the printhead in each position. The diameter 5*3mm model is an inlet and outlet ink tube for a Ricoh printhead, and the other tubes are spare

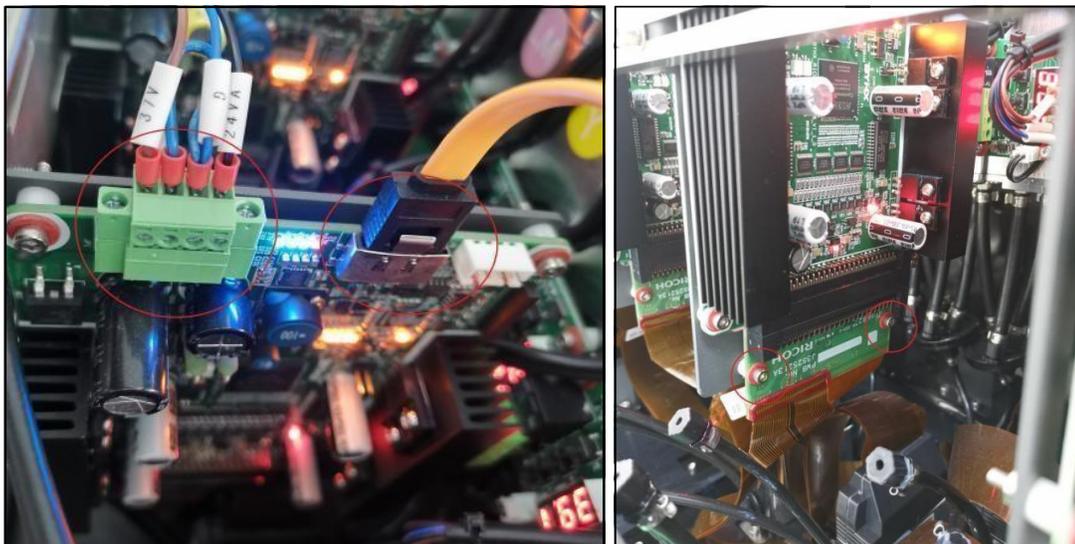
5.5. Install head Adapter Board



Notice: Install the screw gasket as shown in the diagram, and correctly install the printhead adapt plate on the bracket (connect one printhead with each plate card) , Then install the card holder on the beam bar above the printhead inside the locomotive

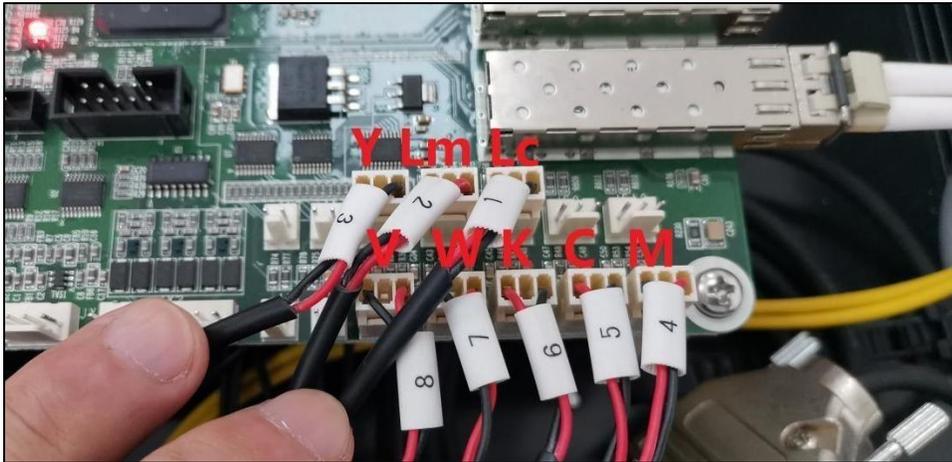


Notice: Find the corresponding screws in the random accessories box and install the upper plate card holder equidistant, and pay attention to the distance from the cartridge heating plate



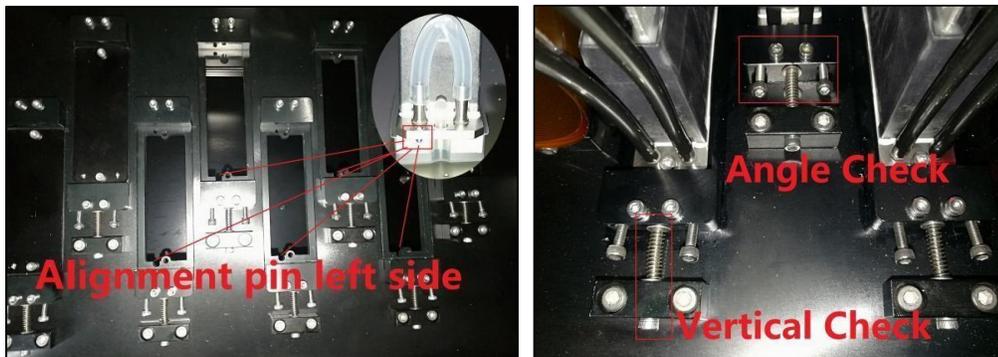
Notice: After the printhead is installed into the hole, the data line of the printhead and the adapter plate should be connected and fitted with screws to prevent the printhead from being damaged by the drop of the data line

5.6. Connect sub tank ink signal



1. As shown in the figure, there is a number label on the signal line of the ink sub-tank, and the corresponding digital signal line is inserted into the corresponding signal jack on the carriage board
2. Connect the signal of the ink sub-tank in turn, turn on the machine and control software, prompt the pump ink information and fill each color of the ink sub-tank, and then discharge one box (ink sub-tank) of ink, ensure that the cleaning flushing in the pipeline is all discharged (ink and cleaning flushing mixing will cause printing ink not dry)

5.7. Connect PrintHead adjust bracket



Old version

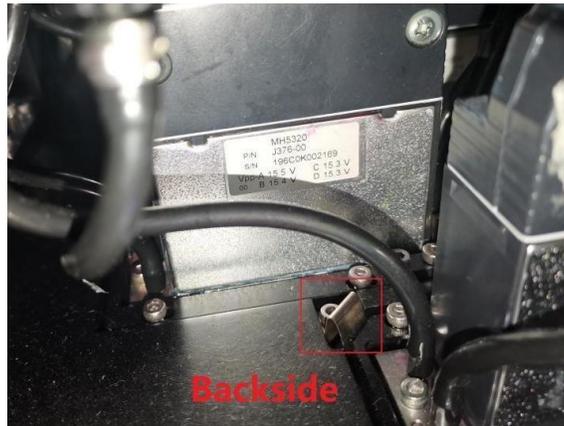
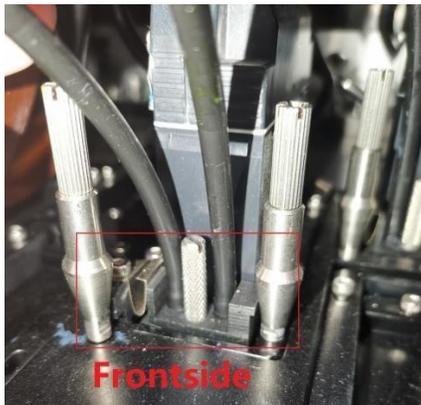
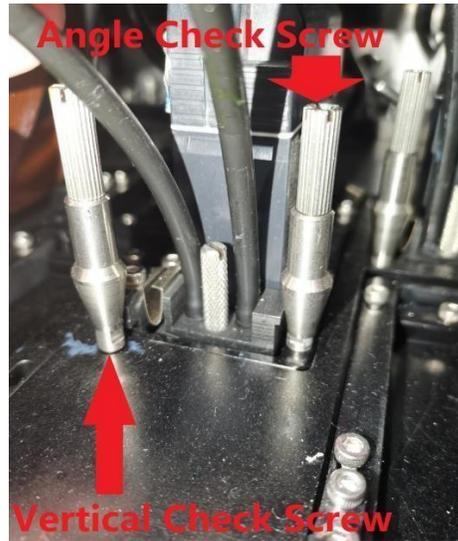
Notice: Old printhead bottom plate, install printhead adjusting screw is shown in the figure, front and back convex points of the printhead are installed on the left side of the bottom plate



polaroid



New version

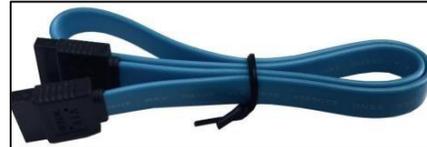


Notice: New printhead bottom plate, install printhead adjusting screw is shown in the figure, front and back convex points of the printhead are installed on the left side of the bottom plate.
The drawing distinguishes the front and back installation directions of the printhead

5.8. Printhead connect (see attachment)

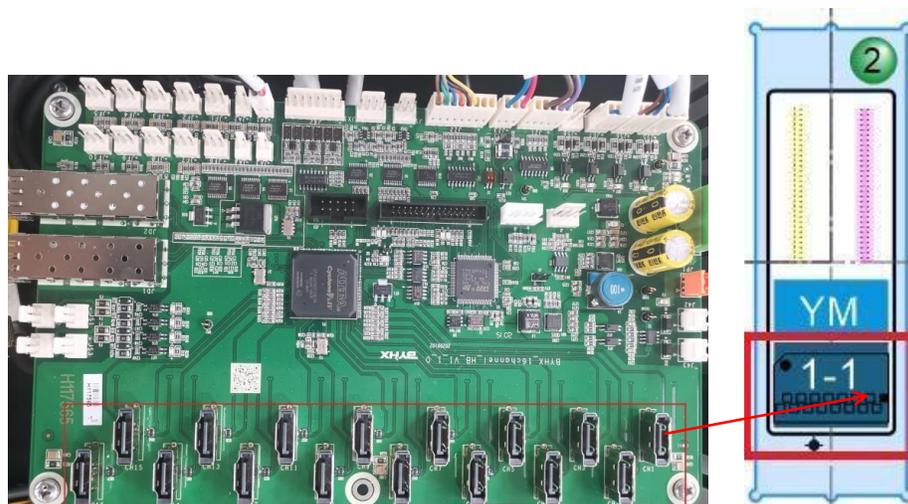


G6 adapter board



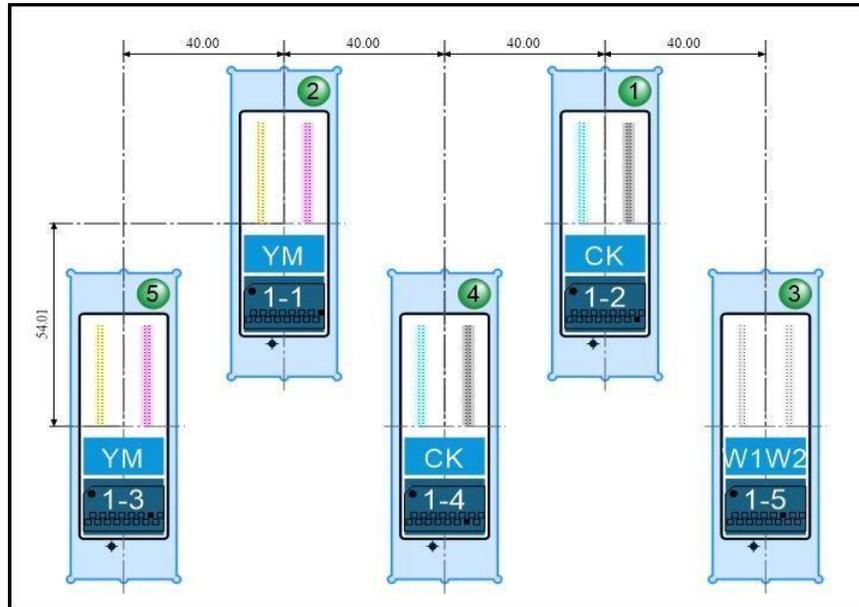
Head data cable

Notice: The data line of printhead and the connecting board of printhead are provided in the random accessories box. Schematic diagram of board card insertion line is provided in the printhead layout package for insertion. Plug the data line one by one when it is inserted, and print the test bar of the last printhead before moving on to the next one (Close the emergency stop switch before each data line is plugged)

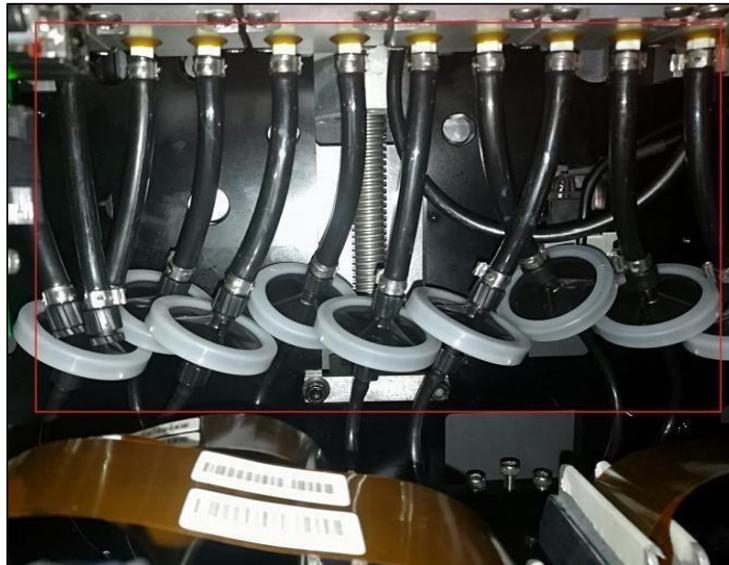


Notice: The printhead wiring method is on the schematic diagram of the layout package





5.9. Connect ink-tank output ink joint and disk filter



Notice: According to the ink order to install the printhead and connect the ink pipe, the ink pipe cannot have bending phenomenon in order to avoid ink cannot smoothly reach the printhead on the printing impact, the first pot of ink due to the flushing of the cleaning fluid in the pipeline, so do not connect the printhead, if there are small crystals in the pipeline will have the risk of blocking the printhead



5.10 Discharge air from the ink output of the printhead (Arrange each color until there are no bubbles)



Notice: This will help heads out of bubbles and get enough inks!
Then you can press cleaning button make inks drop from heads nozzles.



Open this door, can find negative pressure



- A
1. Open negative pressure blue valve (vertical is ON, horizontal is OFF), push cleaning button 15-20seconds
 2. Observe head surface ink back suction speed (about 15 seconds back to head inside is normal)
 3. If the back suction speed is too fast, mean negative pressure is too high
 4. If the back suction speed is more than 20 seconds, using wipe cleaning head surface then ink drop again, mean is negative pressure is too small
- B. Adjust Negative Pressure Explain:
1. Press "ESC" You will get flash "13.62"
This means number 1 value "-3.62" (press "ESC" again switch to number 2 value "-3.69")
Number 1: White Set value
Number 2: White Max set value
Number 3: Color Set Value
Number 4: Color Max set value
Notice: The Max value bigger -0.1 to -0.15 than Min value
 2. Click "MOV" change the number you need change. The flush number means current adjust one
 3. Use "ADD" button adjust the numbers
 4. Press "ENT" button save the setting
 5. Press "ESC" again switch to next setting value

Example: 13.62-----13.92 White set value -3.62 increase to -3.92
 23.69-----23.99 White max set value -3.69 increase to -3.99
 33.62-----33.92 Color set value -3.62 increase to -3.92
 43.69-----43.99 Color max set value -3.69 increase to -3.99 This is just set negative pressure board value (bigger black main tank value), actually negative pressure check for negative pressure meter showing value (control sub tank value)

C. Negative pressure setting cognition



Negative pressure board

Negative Pressure Number	
13.62 = white setting value	-3.62
23.69 = white maximum value	-3.69
33.62 = color setting value	-3.62
43.69 = color maximum value	-3.69

Negative pressure value explain



6. Printer manager software install

Printer manager

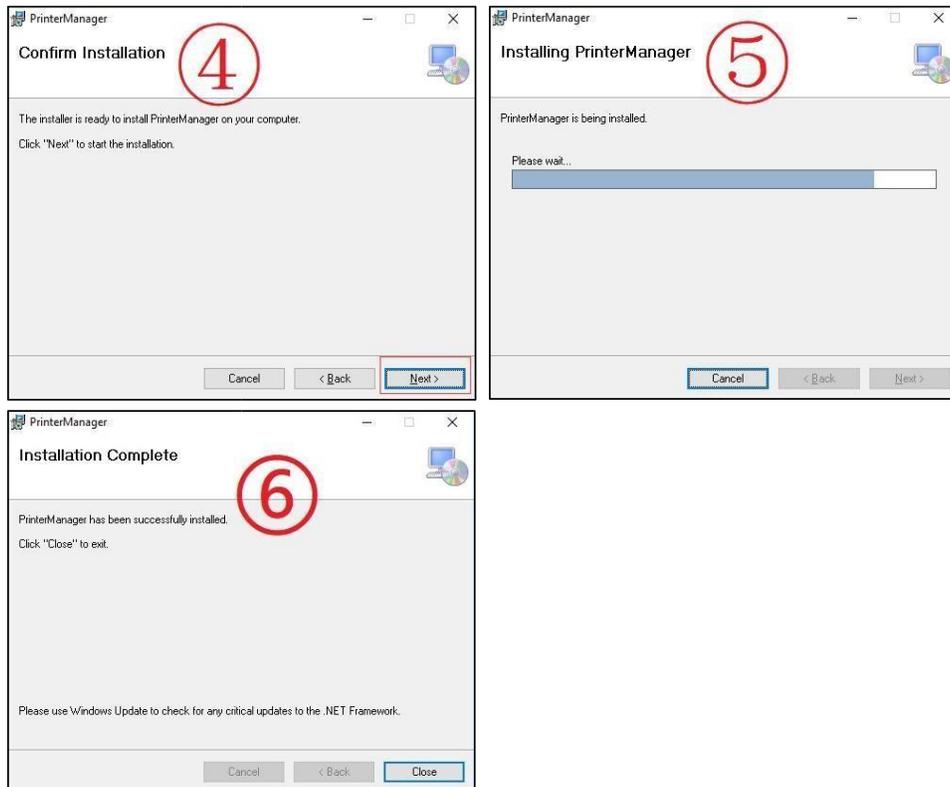


Notice: Find the motherboard location to take down the U disk, have the machine software or upgrade package file (gold one is software USB flush, blue one is machine dongle flush)

6.1. Install setup printer manager

Setup printer manager

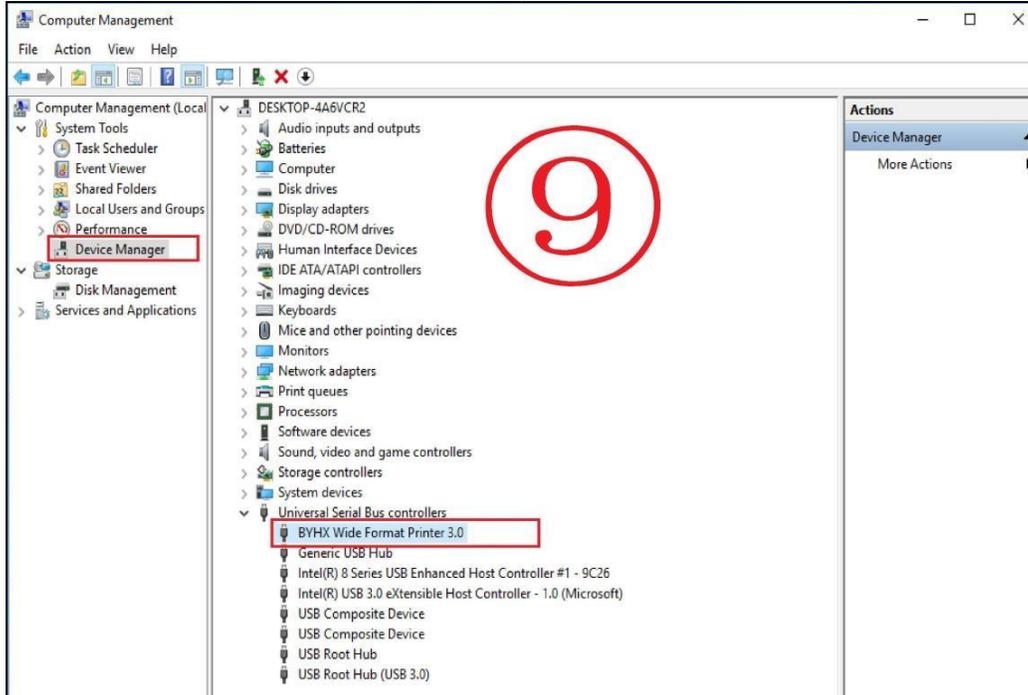
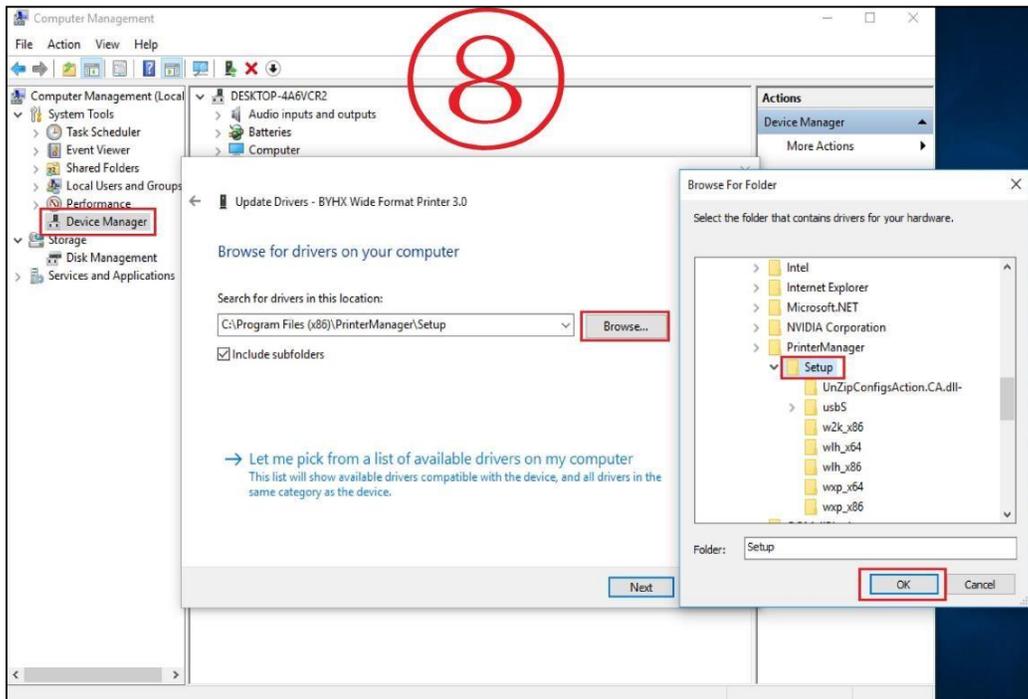




Notice: Find the usb drive near to the main board of the machine, open the software installation program, select and click the setup printer manager icon, next select the installation software path, next until the installation is completed, click close, the desktop will generate printer manager software icon.

6.2. The software finds the driver location "C:\Program Files (x86)\Printer Manager\Setup" "C:\Program Files (x86)\Printer Manager\Setup"



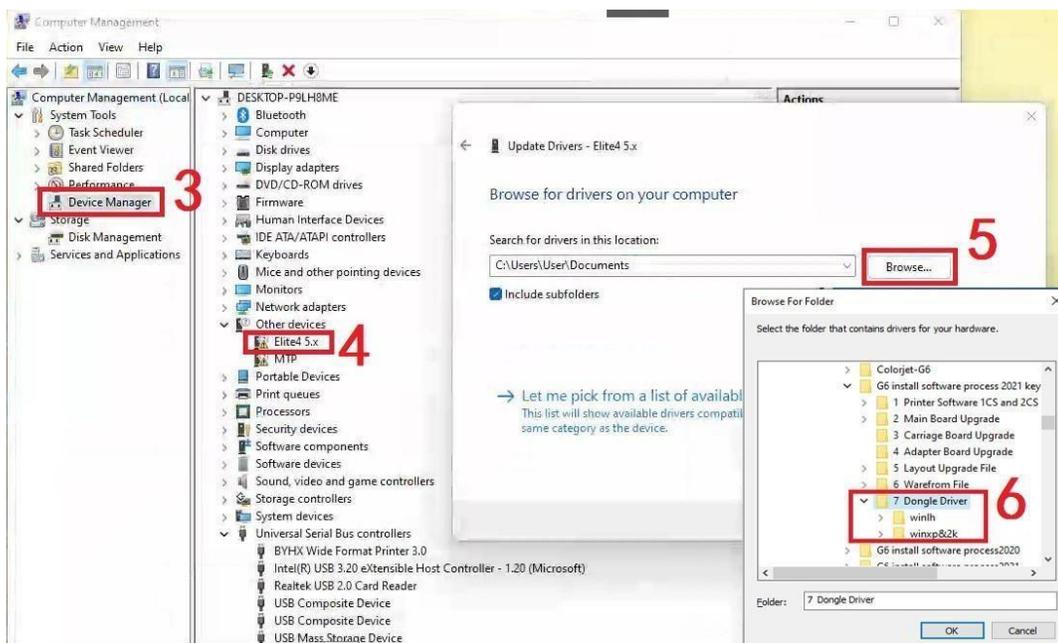


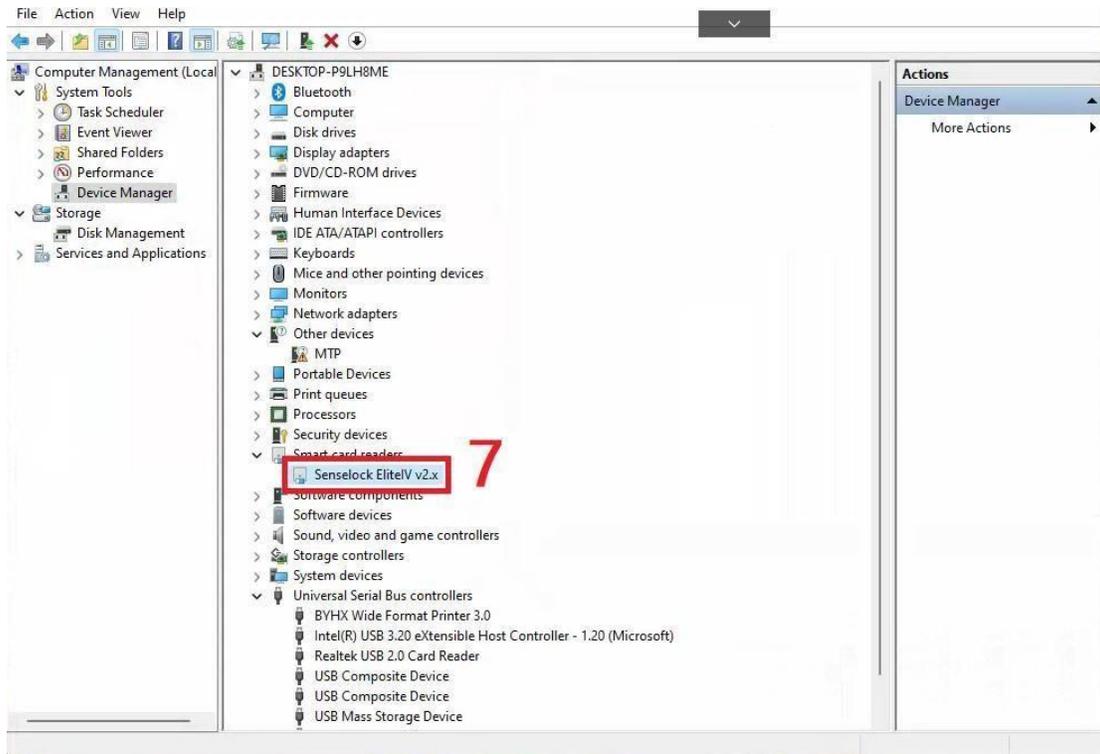
Notice: Right click my computer icon/admin/device manager/usb controller /FX3 icon, right click update driver/browse my computer to find driver software/browse /C:\Program Files (x86)\Printer Manager\Setup path. Automatic search until complete

6.3. Dongle driver

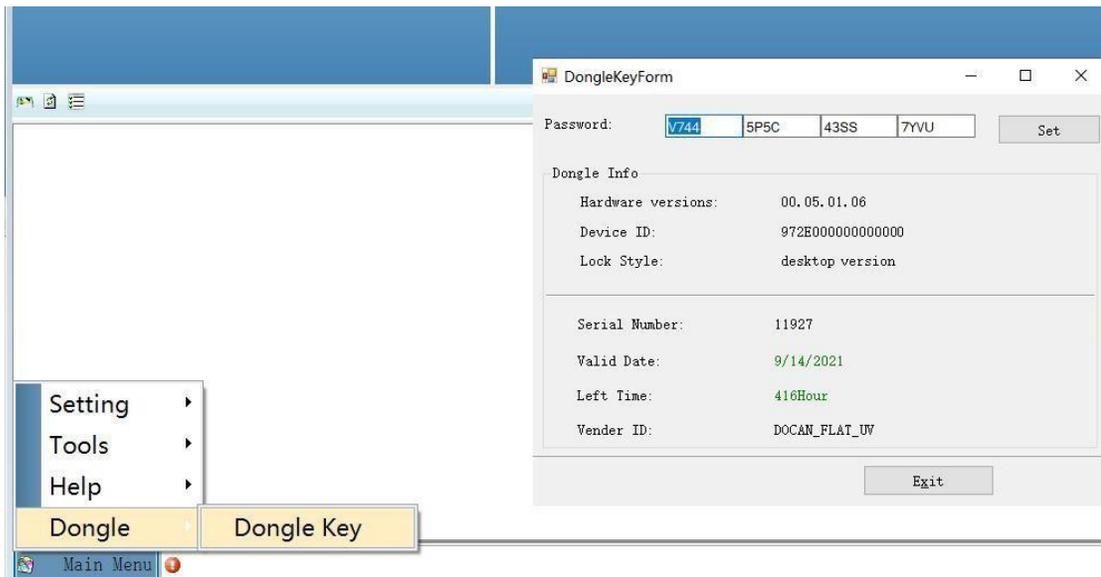


Notice: This PC / Manage / Driver Manage / Other drivers / Elit45.x / Browse / Elit45.x / Browse





6.4 If input new password for dongle, click “Dongle-Dongle Key”, input new password then click “Set “and restart PrinterManager.

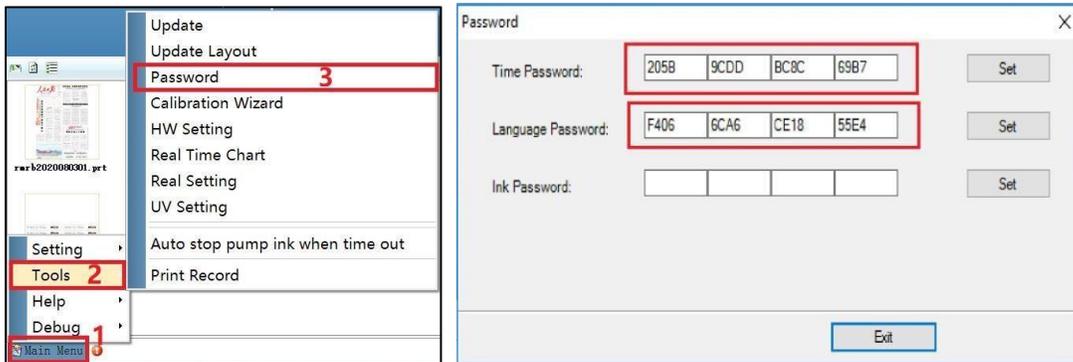


7. Printer manager software operation Printer manager

7.1. Double-click running printer manger

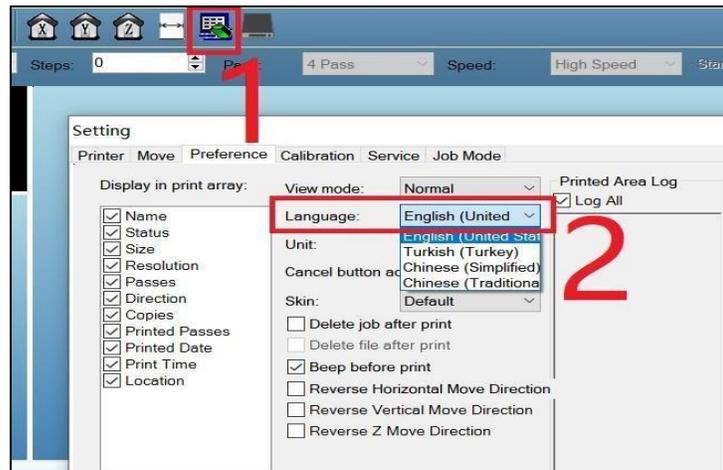


7.2 Put time and language password (This job done by service department)



Time password: the initial password of each machine is 240 hours, and the software will prompt for a new password for the remaining 100 hours. You need to find a dealer to prepare the password input in advance to ensure that the device is not locked

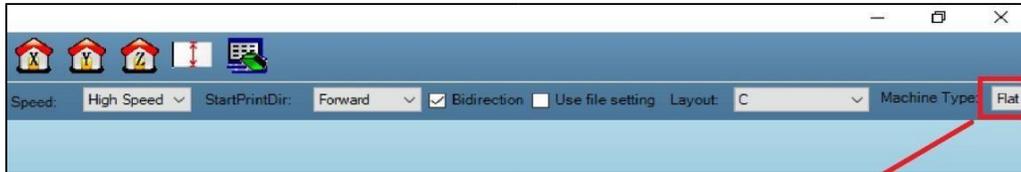
Language password: please enter the language password under the English system (the default of the software is Chinese language).



Notice: Open the software interface/edit job/personality Setting/language/select English language/OK, Press emergency button can restart the machine and software to become English language

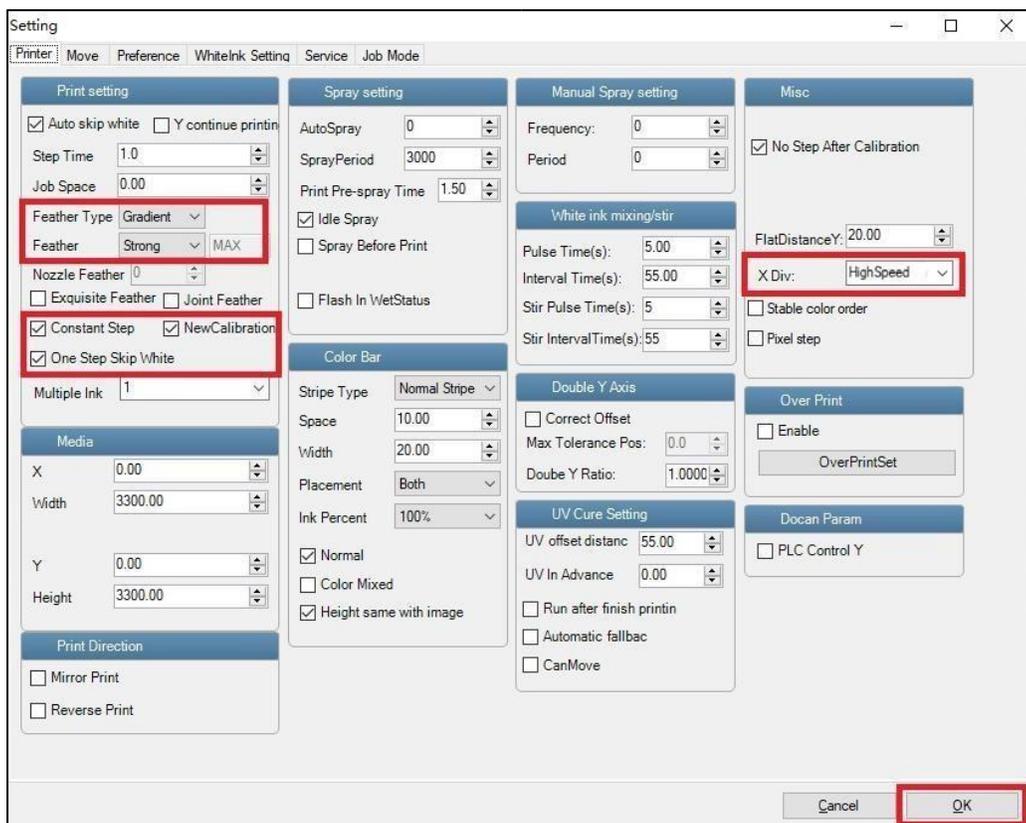


7.3 Flatbed and roller change



Notice: Direct flatbed and roller change, do not restart machine

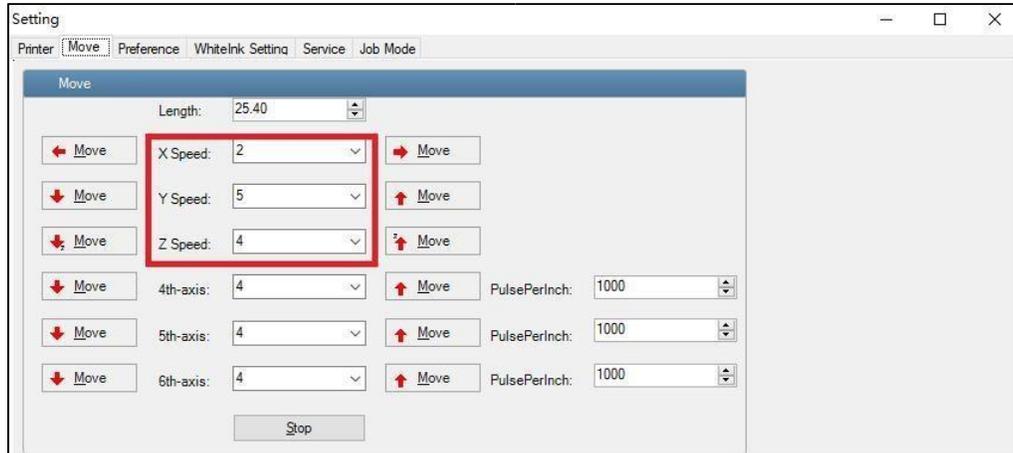
7.4 Setting feather type, feather strong, high speed



- Feather type commonly used (gradient/uniform: solid color block with uniform printing effect good, color block with gradient printing speed)
- Feather size: selected according to print picture quality (strong + fine + sprinkler room + constant step)
- X Div: Select high precision when calibration printhead alignment (select VSD_1_363DPI in calibration wizard)
Select high speed when printing pictures, and select the software interface "Speed select VSD_1"

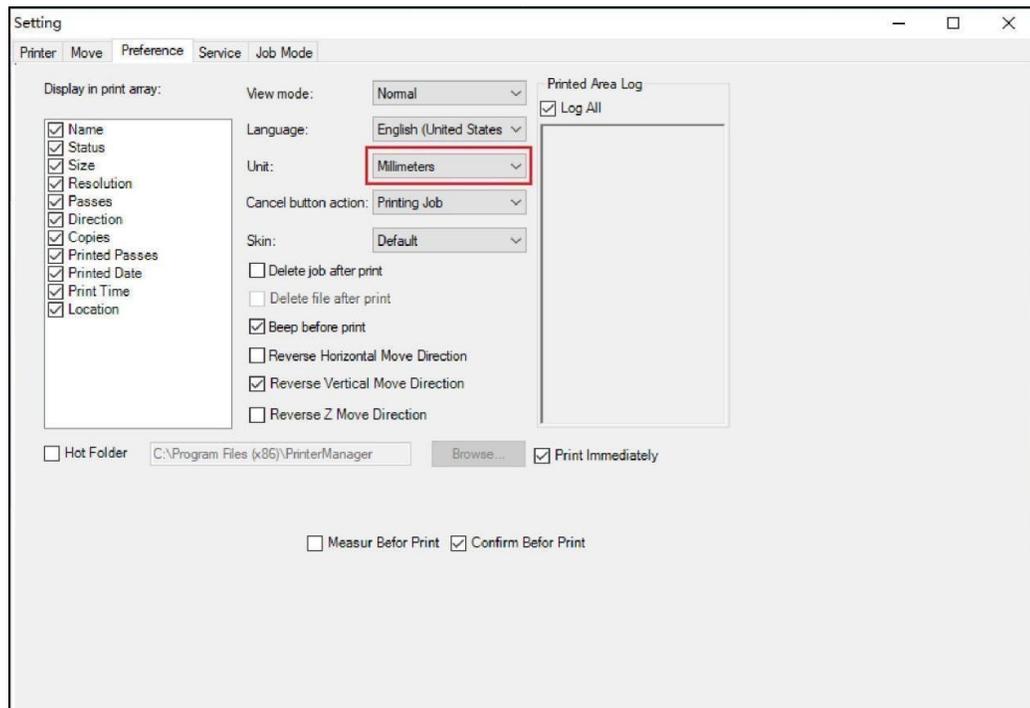


7.5 Move speed setting



Notice: Open the software interface/edit job/move Settings/X, Y, Z speed setting (Use Numbers to represent speed) /save, Exit come into effect

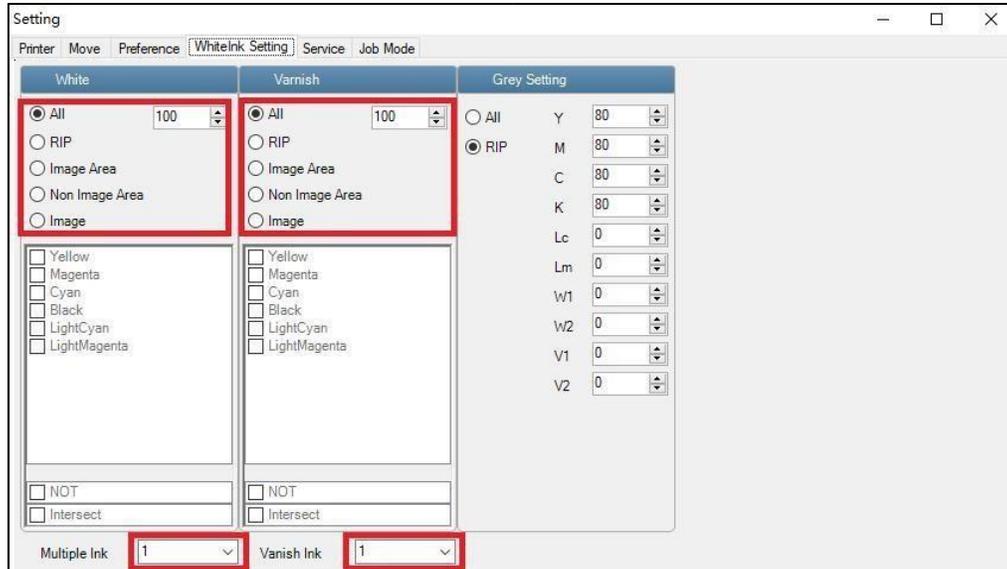
7.6 Unit setting



Notice: Open the software interface/edit job/personality Settings/unit/select mm/OK, Press emergency button can restart the machine and software to take effect



7.7 White /ink setting



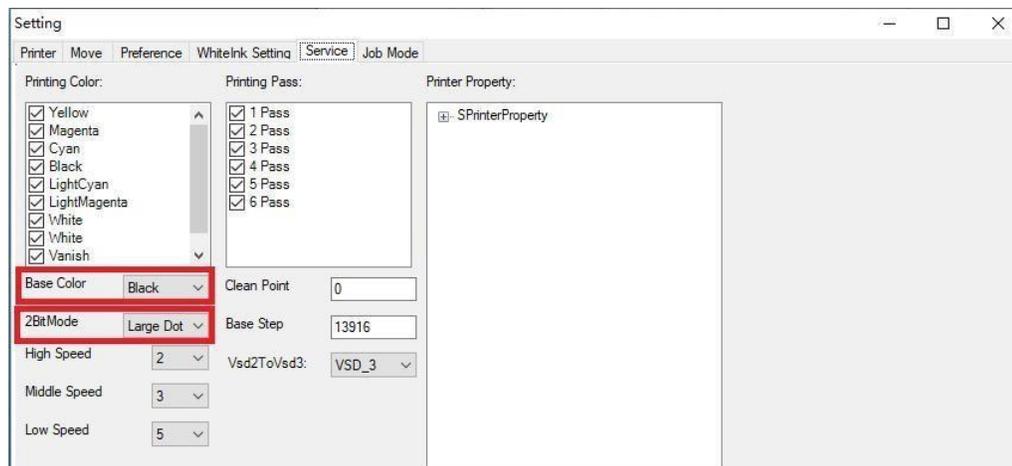
Notice: White ink/gloss ink selection for printing

All: Print white ink/gloss in full width according to pattern size

Rip: First Photoshop fill spot color layer, then Photoprint process image with spot color layer, print spot color white ink/varnish

Image: Print white ink/light oil according to the pattern color (print white ink/light oil according to the pattern color; print white ink/light oil according to the pattern color)

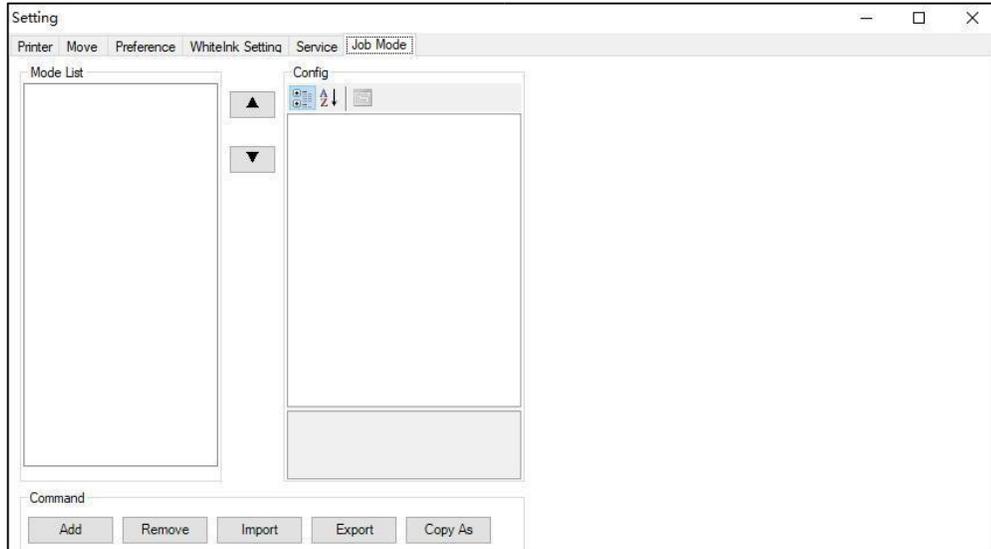
7.8 Service setting



Notice: Select calibration reference color and print ink point size Settings

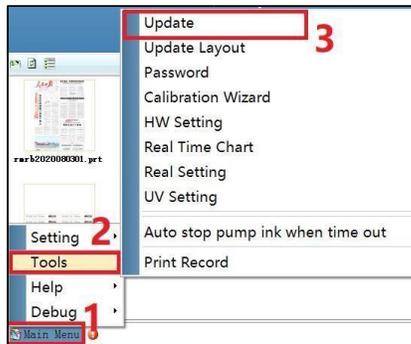


7.9 Job mode



Notice: Set fixed options such as save print mode, pass number, speed, direction, feather selection, etc.

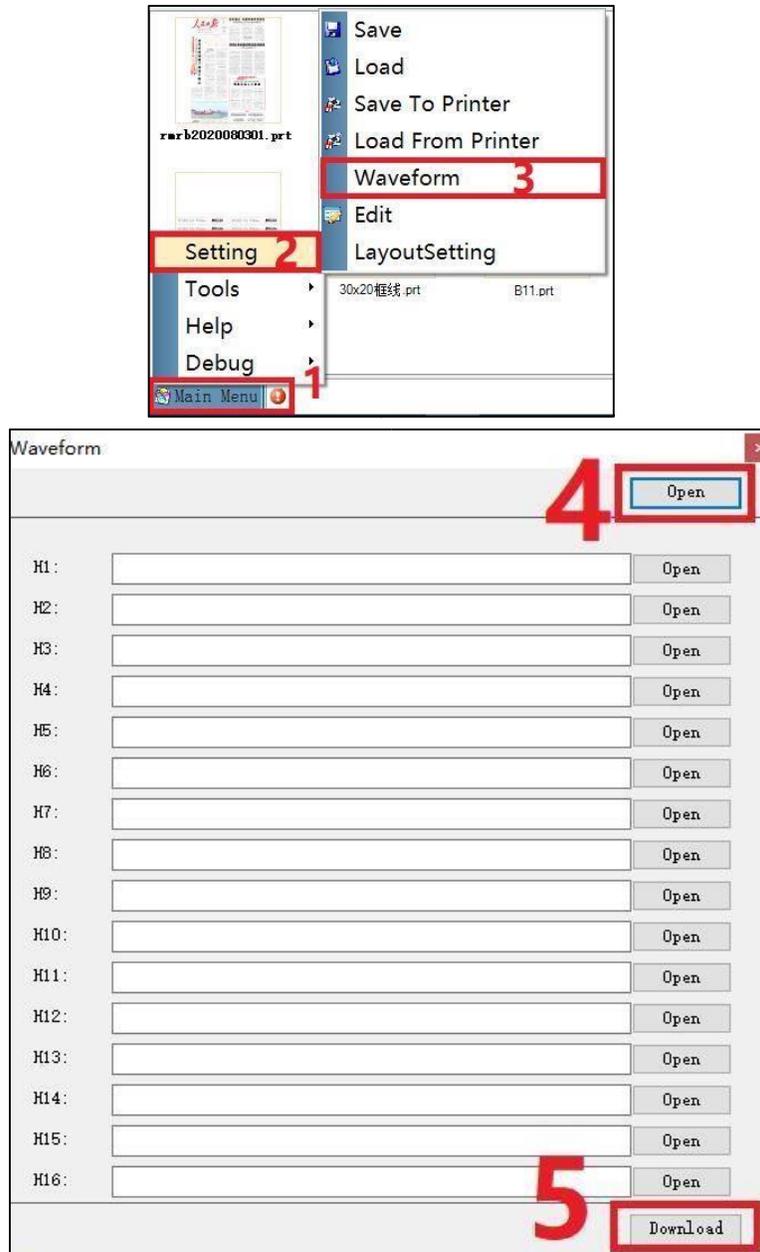
7.10 Upgrade printhead adapter board driver



Notice: Suffix DAT file is the adapter board upgrade file (Only one adapter board can be upgraded at a time, you cannot upgrade multiple blocks at the same time)



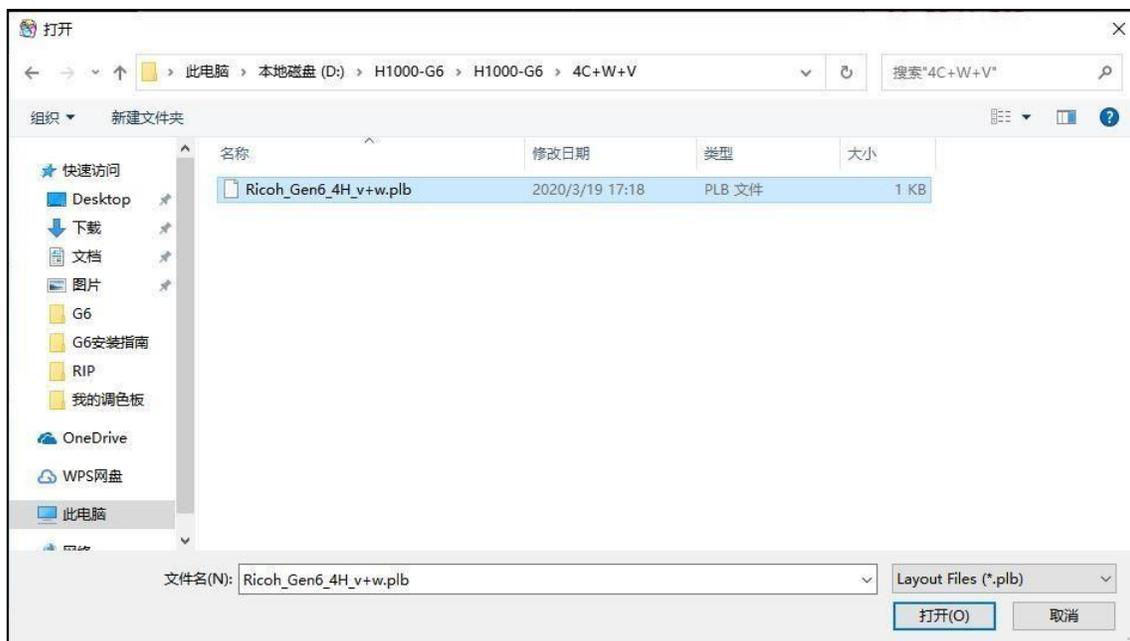
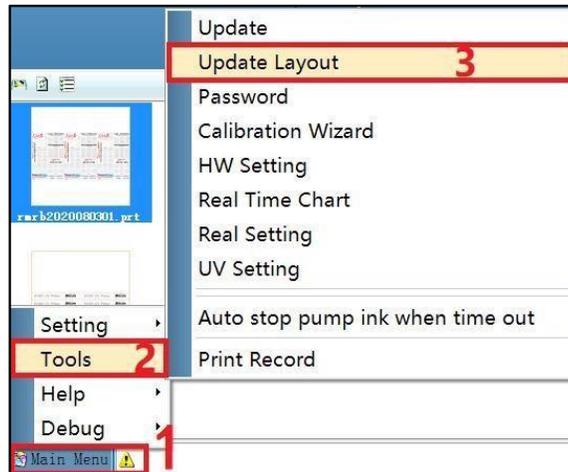
7.11 Loading printhead waveform



Notice: The printhead waveform file (suffix WAV formatted file) is provided by POLAROID company according to the ink used by customers (The printhead waveform certified by POLAROID).



7.12 Upgrade printhead layout package Settings (DOCAN provides corresponding layout packages, and customers install printhead according to the location of layout packages)



Notice: Suffix PLB file is the layout upgrade file



7.13 LED lamp setting

The image shows two parts related to LED lamp setting. On the left is a software menu with 'UV Setting' highlighted. On the right is the 'UV Setting' configuration window, which includes sections for 'Printing', 'First Nozzle', 'Other', and 'Offset Distance'. The 'Offset Distance' section has 'LeftLamp' and 'RightLamp' sub-sections, each with 'Printint Left Open', 'Printint Left Close', 'Printint Right Open', and 'Printint Right Close' fields. Below this is a diagram of the printer's printhead area. It shows a central area with 'Y M' (yellow and magenta) and 'C K' (cyan and black) color blocks, and a 'W1W2' (white) block. On either side are vertical rows of LEDs labeled 'Left_LED' and 'Right_LED'. Red arrows indicate the 'Left LED outside to last printhead distance' and the 'Last printhead to outside the right LED'.

Notice: Setting UV lamp on distance: main menu/tools /UV lamp setting/modify left and right light on distance (left: left LED lamp to the last printhead distance, right: the last printhead to the right LED lamp distance) unit mm

The 'Printer Manager' dialog box asks 'Do you want to measure media?'. It contains several input fields for Z-axis parameters: Z Max (101.90), Z Work Pos (100.37), Head to paper (1.50), Z speed (3), Detector length (0.90), Media Thickness (0.03), X position (1100.00), and Y position (300.08). There are buttons for 'Measure Thickness', 'Manual Move', 'Measure Thickness', 'Cancel', 'Measure Z Max', 'Set Z Work Pos', 'Refresh', and 'Save And Close'.

Notice: Move the carriage to the table for adjustment and height adjustment



7.14 Factory Write

1

2

3

4

5

6

7

Name	Date modified	Type	Size
Config	6/18/2019 2:20 PM	WinRAR ZIP 压缩...	225 KB
CsharpZip.DLL	6/21/2019 12:09 PM	Application extens...	180 KB
DownloadFile	6/21/2019 12:09 PM	Application	12 KB
ep6_pipe_log	4/17/2020 10:01 AM	Text Document	0 KB
ErrorInfo	6/21/2019 12:09 PM	Data Base File	372 KB
ExProc.DLL	6/21/2019 12:09 PM	Application extens...	56 KB
FactoryWrite	6/21/2019 12:09 PM	Application	156 KB
Filter.dll	6/21/2019 12:09 PM	Application extens...	34 KB
FMWhiteInk.dll	6/21/2019 12:09 PM	Application extens...	64 KB
HeadVersionInfo	4/17/2020 9:29 AM	Data Base File	0 KB
IconLoadDy.dll	6/21/2019 12:09 PM	Application extens...	20 KB
Joblist	4/17/2020 10:22 AM	XML Document	1 KB
Joblist.xml.tmp	4/17/2020 10:22 AM	TMP File	1 KB
JobPrint.dll	6/21/2019 12:09 PM	Application extens...	1,466 KB
LangUsb.dll	6/21/2019 12:09 PM	Application extens...	84 KB
log	4/17/2020 10:01 AM	Text Document	7 KB
manual	6/21/2019 12:09 PM	WPS PDF 文档	1,224 KB
msvcr100.dll	6/21/2019 12:09 PM	Application extens...	810 KB
MultimediaLayout.DLL	6/21/2019 12:09 PM	Application extens...	70 KB
Office Menu Control.DLL	6/21/2019 12:09 PM	Application extens...	20 KB
performace	4/17/2020 10:01 AM	Text Document	0 KB

Printer Manager Ricoh_Gen6 5Head 10Color

Copyright (C) software register ID:2008SRBJ1383. All rights reserved.

SW version:1.0.33241 03/24/2020 1828 Layout 64bit
 FW version:8331 20200522
 MB version:4.1.0.131 20200515-87
 MT version:5.0.9.0 2020032500
 HB version:5.1.6.4 200514-51RD
 Map version:8.1.0.1 200521-FBRD
 MB ID :7826
 Area:943.864929m2
 Limit time:1920(Hours)
 Elapsed time:651(Hours)
 Language:English (United States)
 Limit Ink:Not Limit Ink
 Ink1[Y] Printed Ink:31.2242(L)
 Ink2[M] Printed Ink:32.1882(L)
 Ink3[C] Printed Ink:4.1337(L)
 Ink4[K] Printed Ink:3.4011(L)
 Ink5[Lc] Printed Ink:2.2355(L)
 Ink6[Lm] Printed Ink:30.5823(L)
 Ink7[W] Printed Ink:8.8736(L)
 Ink8[W] Printed Ink:7.8743(L)
 HeadBoard SN:unknow

00921641
 ↑
 verity password

password:
 Cancel Verify

Notice: Right click the Printer manager icon/open the file location /factory write/help/about/password area: password "00921641" (different for each model)/enter the maintenance password to enter the factory setting interface



PrinterHWSetting

FactoryData | Extension

pent

Use liner encoder

Use servo encoder

White ink on the right

Media Sensor

Head Staggered Arrangement

Support Z end point sensor

Vender

Color: 6

Group: 1

Width: 3300.00

HeadType: Ricoh_Gen6

Print head in right

One Head Two Color

Z Measur Support

Xaar382 Pixle Mode

8-color arrangement

Color Staggered Arran

Mirror Arrangement

8C compatibility mode

Color Space: 80.00

Group Space: 40.00

Y Space: 50.80

Angle: 0.00000

White Color Num: 2

Coat Color Num: 0

OK

PrinterHWSetting

FactoryData | Extension

PrintColorOrder

W[White] | W[White] | Lm[LightMa] | Lc[LightCya] | K[Black] | C[Cyan] | M[Magenta] | Y[Yellow]

Print Resolution: 726

Grating Resolution: 25400[1uRaster]

Origin buffer distance: 460.00

FlatDistanceX: 480.60

Default Z: 0.00

The end buffer distance: 460.00

FlatDistanceY: 3.00

Max Offset Pos: 10.00

Y Encoder DPI: 25400

Topology Mode: 单光纤单头板_16

HeadBoard Num: 1

HbPortSelectCB1: Port1 Port2 Port3 Port4

MotorDebugMode

OK

Notice: Head count: must setting "8"

Color, group, color space, group space ,y space ,white color Num, coat color Num :

can fix the layout upgrade

Print color order: can fix the layout upgrade



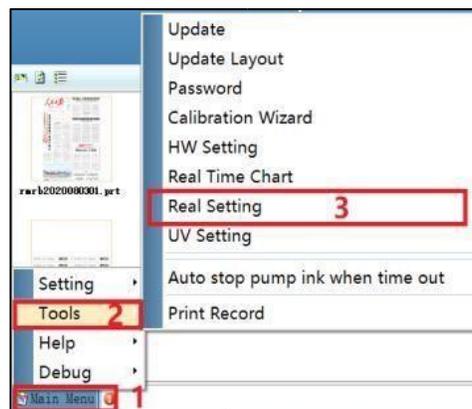
7.15 Software operation interface

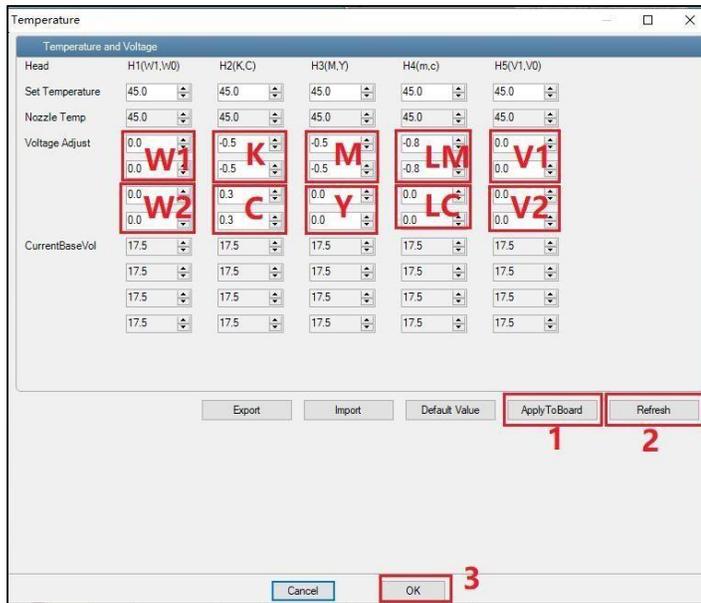


1	Add job	8	Stop	15	X home	22	Step setting
2	Delete job	9	Left move	16	Y home	23	Pass number
3	Print	10	Right move	17	Z home	24	Speed
4	Pause/continue	11	Down move	18	Z axis thickness	25	Print direction
5	Finish	12	Up move	19	Setting	26	Bi-direction
6	Nozzle check	13	Z up	20	X origin setting	27	Layout setting
7	Spray	14	Z down	21	Y origin setting		

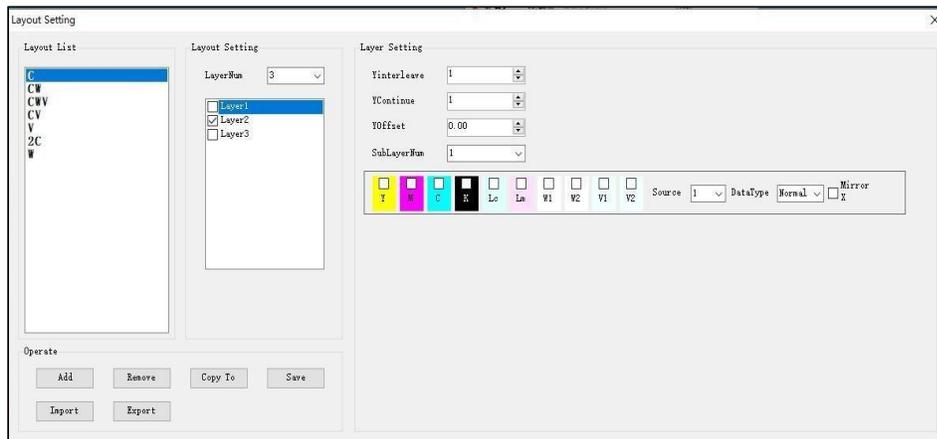
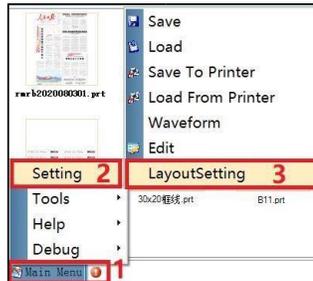
7.16 Print head temperature setting to 45°C

Generally, the printhead temperature is set to 40- 45°C (temperature can be appropriately added or decreased according to the situation of jet ink printing).





7.17 Layout print

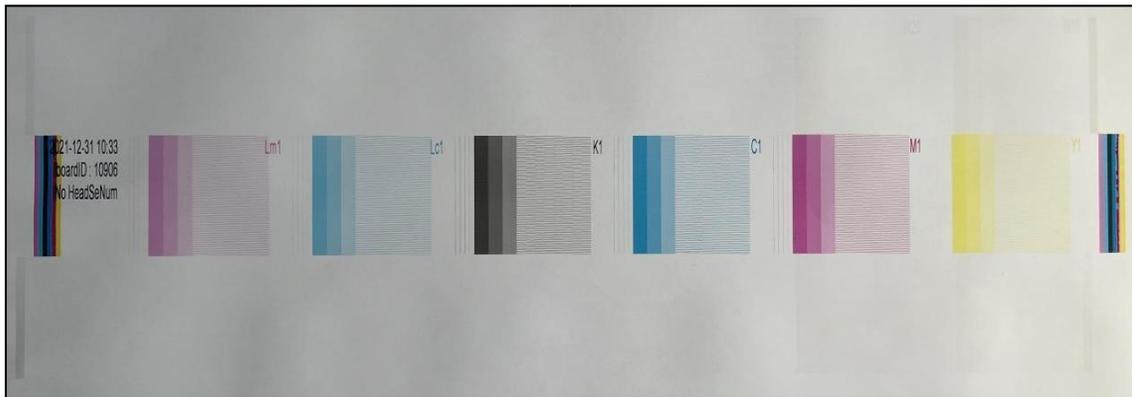


Layer number: select the number of layers to edit many printing methods (CWC, CW, WC, WCW...)

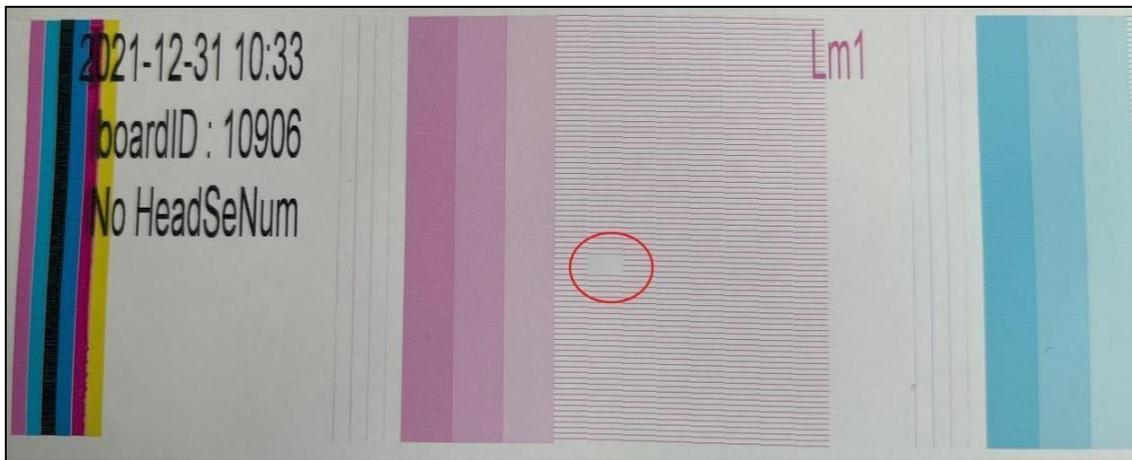


8 Printhead Calibration

Click the nozzle check icon (the above icon refers to)



This check nozzle is good

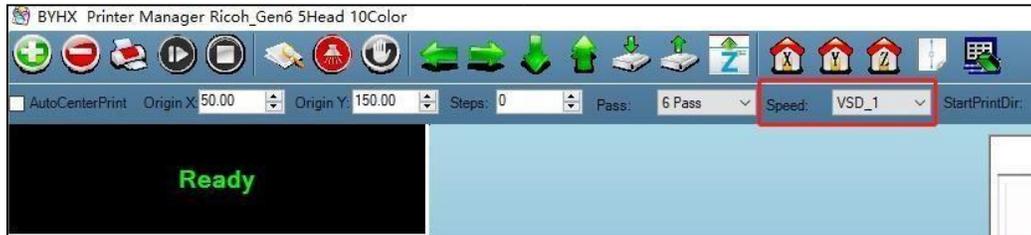


This check nozzle is bad (missing 3 nozzle), need cleaning

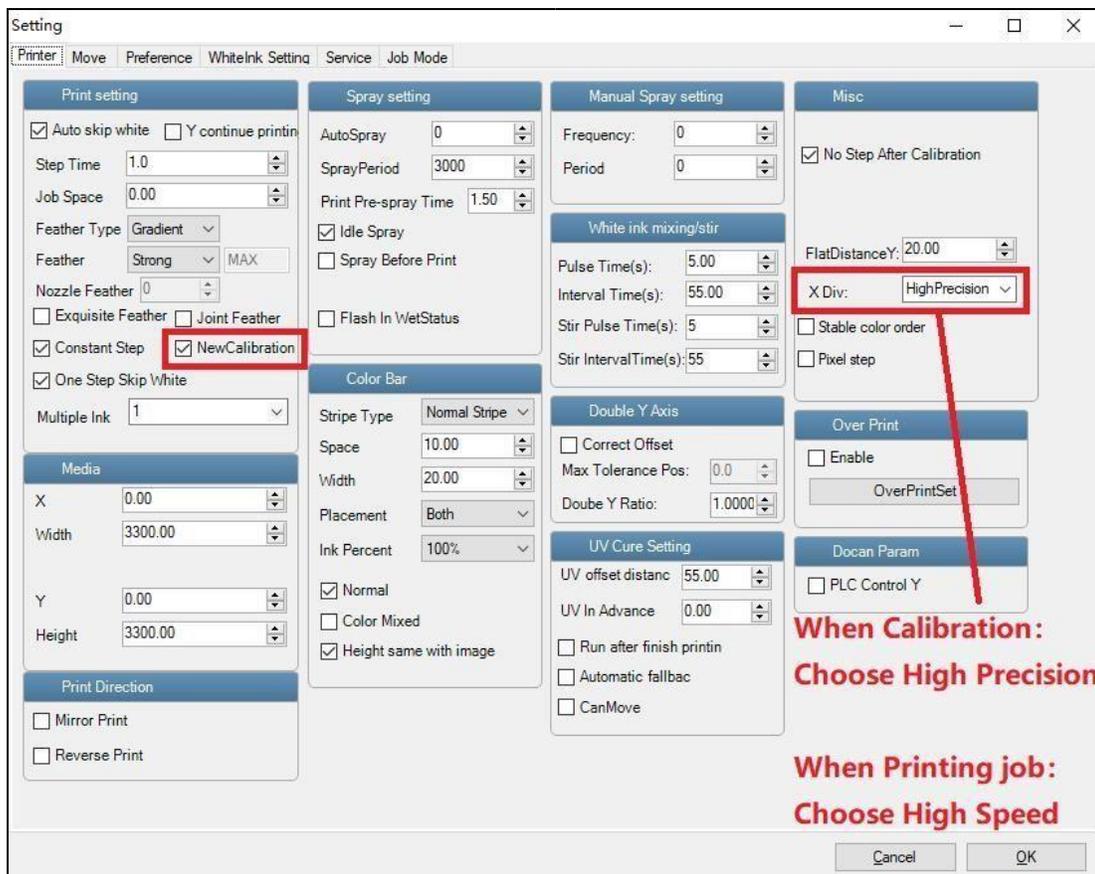
Notice: If the Printhead has blocked hole phenomenon, must clean the blocked jet hole must be cleaned in time to open, so as to avoid a long time to block the nozzle print has white channel phenomenon



8.1 Printer manager software interface choose speed VSD_1



8.2 Change Setting/Printer/ Choose X div (New calibration/High Precision)



8.3 Main Menu/Tools/Calibration wizard/Next / Step interface, First print Base Step (1 pass)



1

2

3

4

5

6

input print value

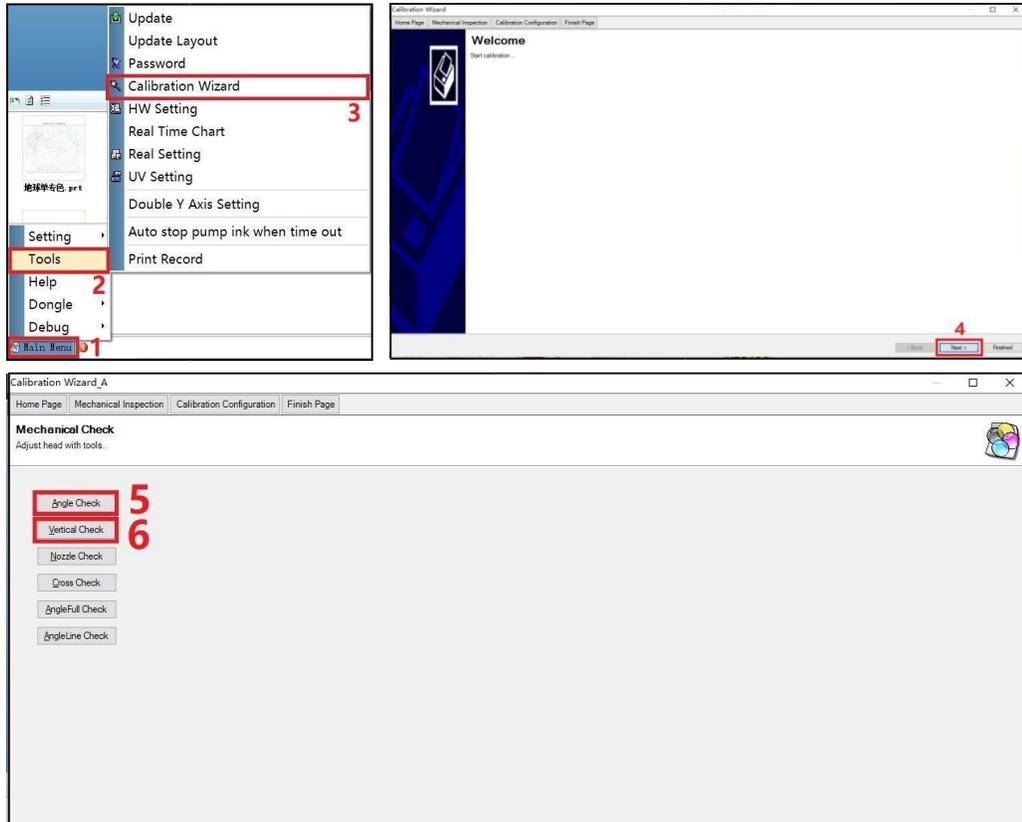
“1” pass base step calibration check

Step Calibration

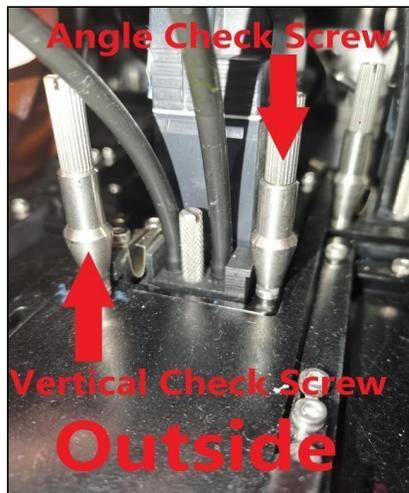
Notice: There are six groups of overlapping areas when printing the stepper calibration diagram. Look at the three groups above, select the cross section and fill the corresponding number into the revise column. Click the arrow button next to it, the software will automatically calculate the step value



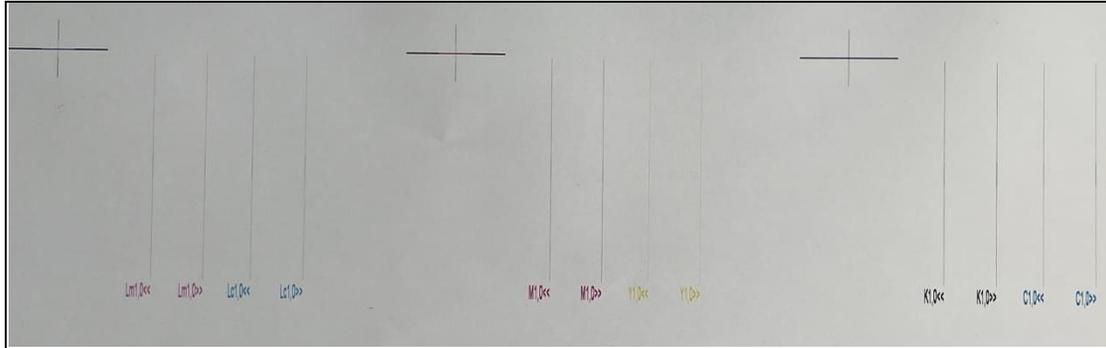
8.4 Mechanical Calibration



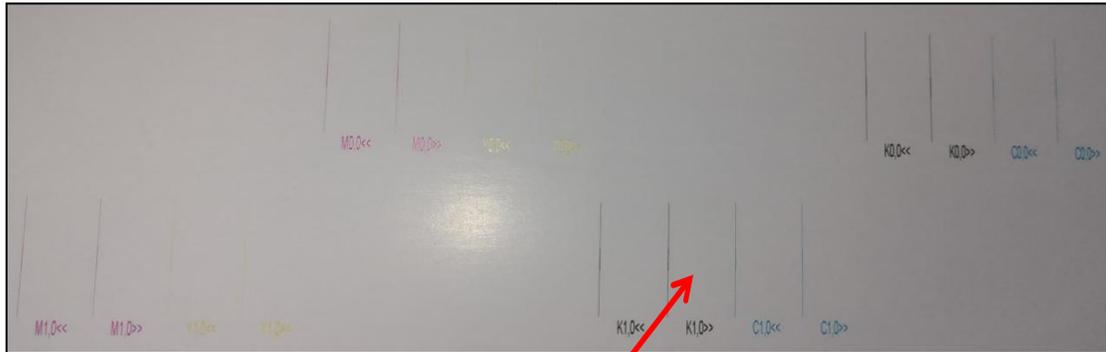
Notice: Main Menu/Tools/Calibration Wizard/ Next/Mechanical Check /Angle check and Vertical check



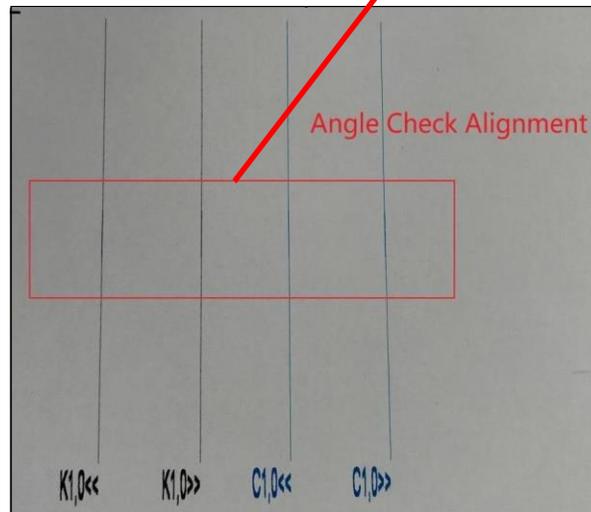
1. Angle Check Alignment 1 Row Arrangement



2. Row Arrangement



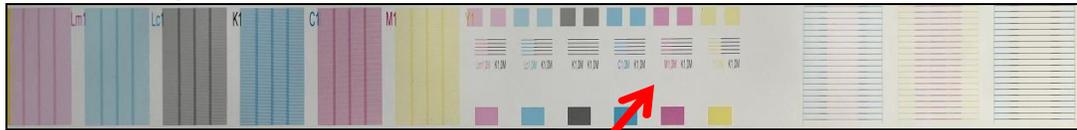
Detail photo by Angle Check



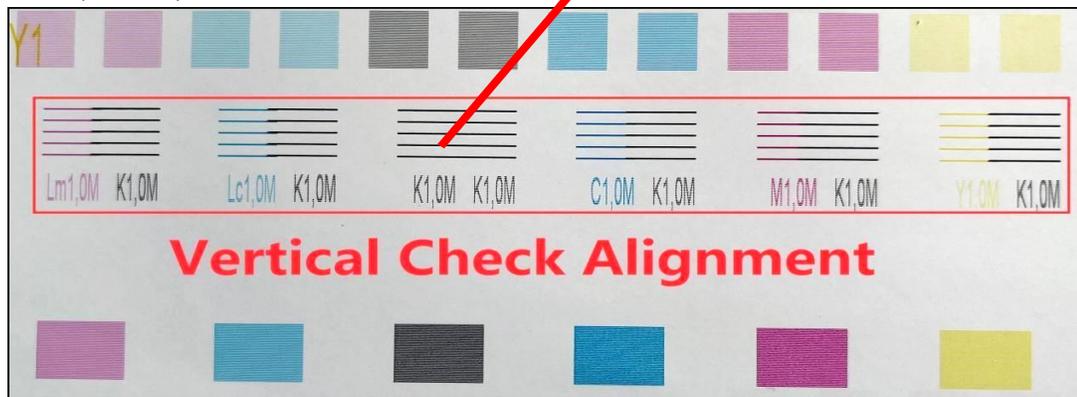
Notice: According to calibration requirements, manually adjust the printhead screws, Change Angle calibration, Until the top and bottom lines aligning

Vertical Check Alignment

1. Row Arrangement



Detail photo by VerticalCheck



Notice: Diagram to check, Manually adjust the printhead screws, until base printhead (black) base line and calibration printhead line level whole aligning

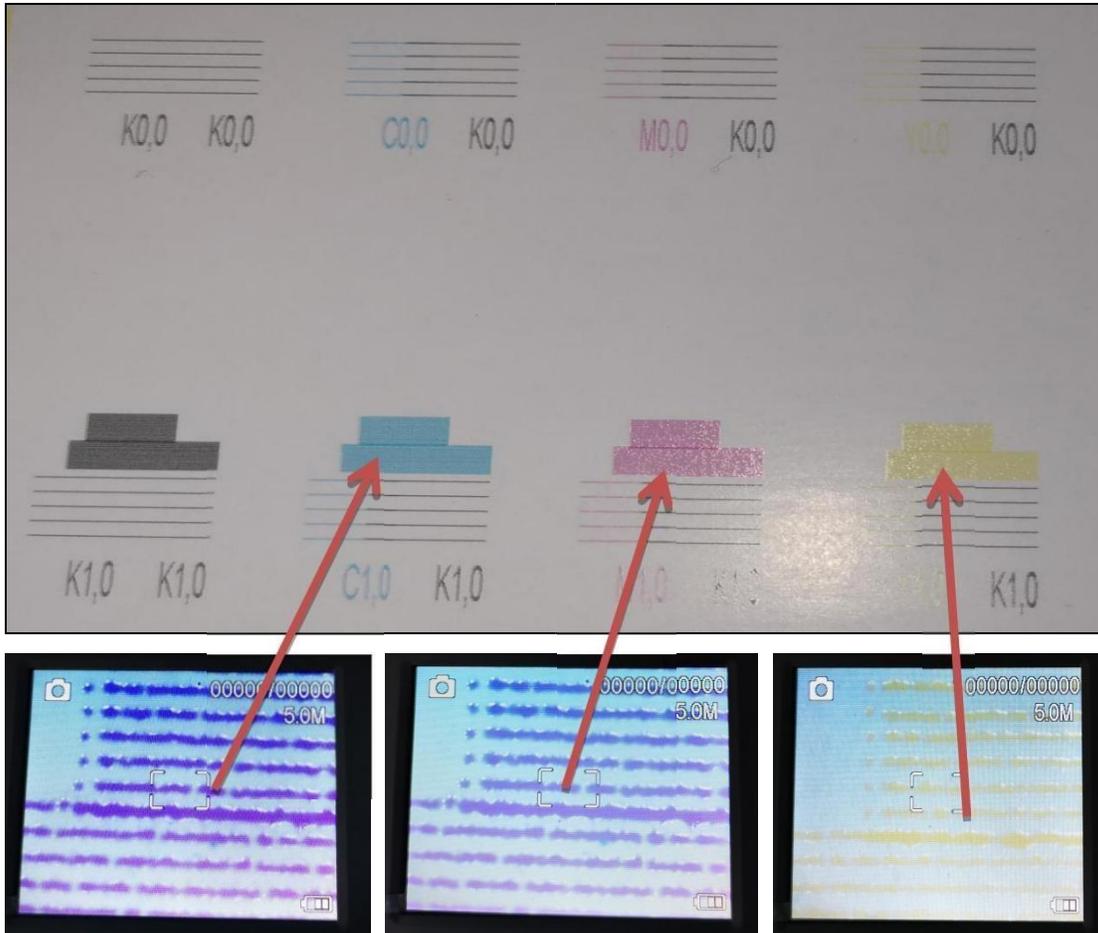
2. Row Arrangement



Notice: Diagram to check, manually adjust the printhead screws, until base printhead (black) base line and calibration printhead line level whole aligning



Detail photo by vertical check (2 row overlap)



Notice: Diagram to check, two rows printhead color offset need to overlap one hole position, by base color to set the vertical color of two rows of printhead

8.5 Printhead Calibration

Click drop-down menu behind Horizontal, and choose VSD_1_363DPI



Calibration Wizard_A:GroupLeft

Home Page Mechanical Inspection Calibration Configuration Finish Page

VSD_1_363DPI Copy to ↗

Group

Group	G0	G1	G2
Left	2	2	1
Right	0	0	2

Horizontal GroupAllCalibration

Bidirection: 23 LineWidth: 1

Head	1 (V2)	2 (V2)	3 (V1)	4 (V1)	5 (K)	6 (K)	7 (C)	8 (C)	9 (M)	10 (M)	11 (Y)	12 (Y)	13 (Lm)	14 (Lm)
Left	0.4	-1.0	-2.0	1.0	1.5	-0.5	-1.3	-1.4	-2.7	-1.0	-2.5	1.4	-1.0	-0.5
Right	1.0	0.0	2.0	1.0	-0.7	1.0	2.2	0.0	0.6	1.2	-0.4	1.0	-0.2	1.5
On/Off	<input type="checkbox"/>													
Head	17 (V2)	18 (V2)	19 (V1)	20 (V1)										
Left	0.0	0.0	0.0	0.0										
Right	2.0	0.0	0.0	0.0										
On/Off	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										

Vertical

Head	(Y)	(M)	(C)	(K)	(Lc)	(Lm)	(V1)	(V2)	(V1)	(V2)
Vertical	0.3	-0.2	0.1	0.0	1.3	0.7	0.8	0.8	0.0	0.0

OverLap

Head	(Y)	(M)	(C)	(K)	(Lc)	(Lm)	(V1)	(V2)	(V1)	(V2)
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0

Step 6 Pass

Print Save

Notice: Here we take VSD_1_363DPI for example, click Next, then input fields behind Left will become white, it means that now it allows to input accumulated value into input fields

8.6 Group (Left/Right)

Calibration Wizard_A:GroupLeft

Home Page Mechanical Inspection Calibration Configuration Finish Page

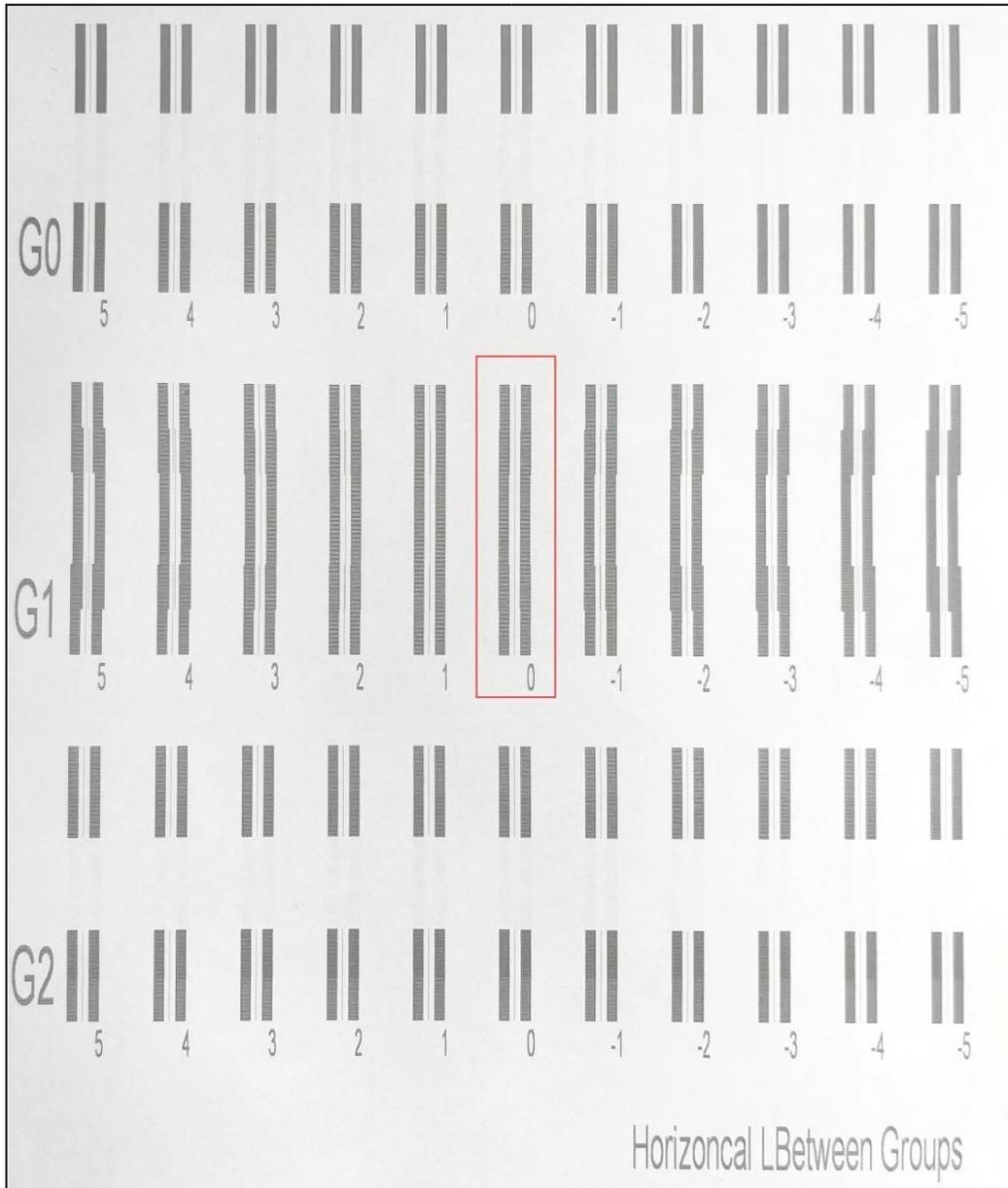
VSD_1_363DPI Copy to ↗

Group

Group	G0	G1	G2
Left	2	2	1
Right	0	0	2



polaroid



Notice: Different rows of color white varnish color offset, enter (add number) its parameters into the software



Calibration Wizard_A:GroupRight

Home Page Mechanical Inspection Calibration Configuration Finish Page

VSD_1_363DPI Copy to ↗

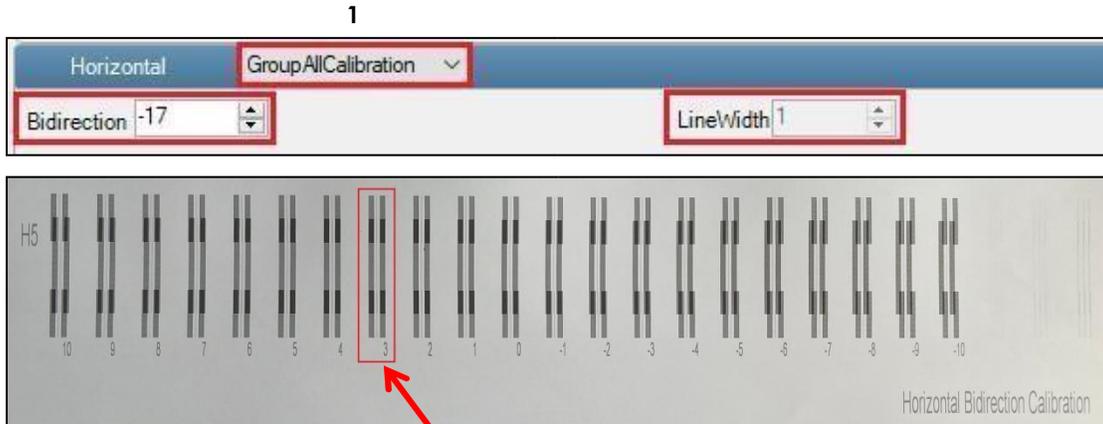
Group	G0	G1	G2
Left	2	2	1
Right	0	0	2

Horizontal RBetween Groups

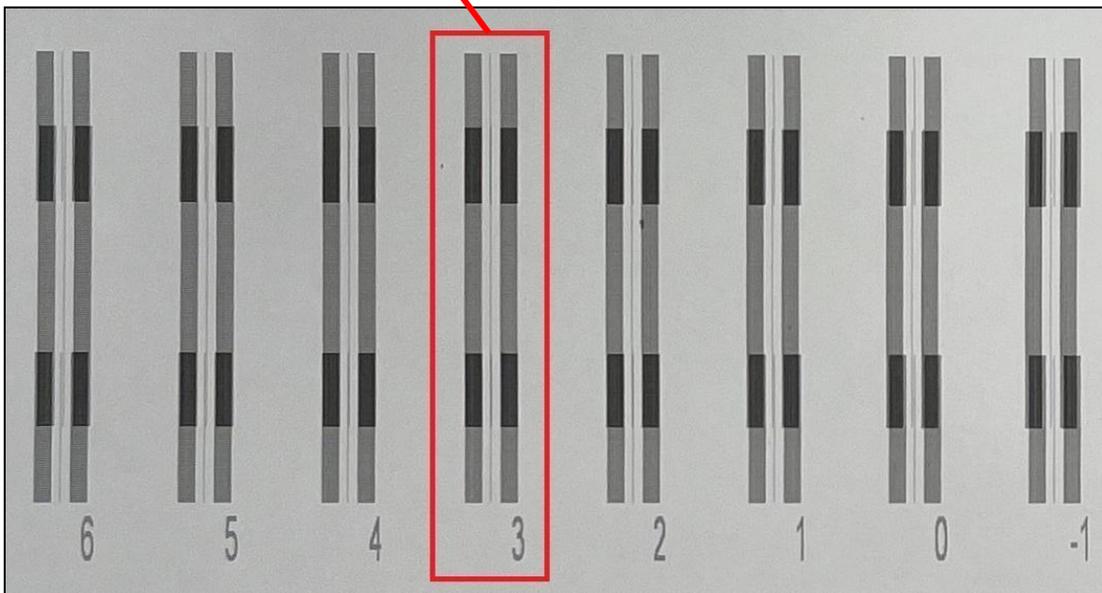


Notice: Different rows of color white varnish color offset, enter (add number) its parameters into the software

8.7 Bidirectional Calibration (Group All Calibration) (Line Width 1)



Bidirectional Calibration detail



Notice: Select the value of base color (black) to "add number" to the corresponding value box

8.8 Left Calibration (Group All Calibration) (Line Width 1)

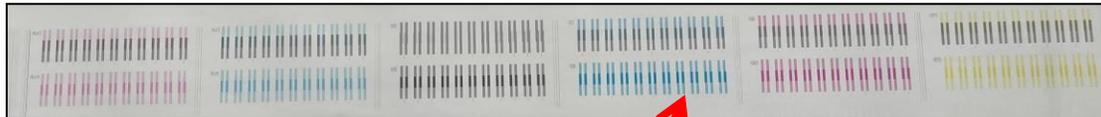


Horizontal **GroupAllCalibration**

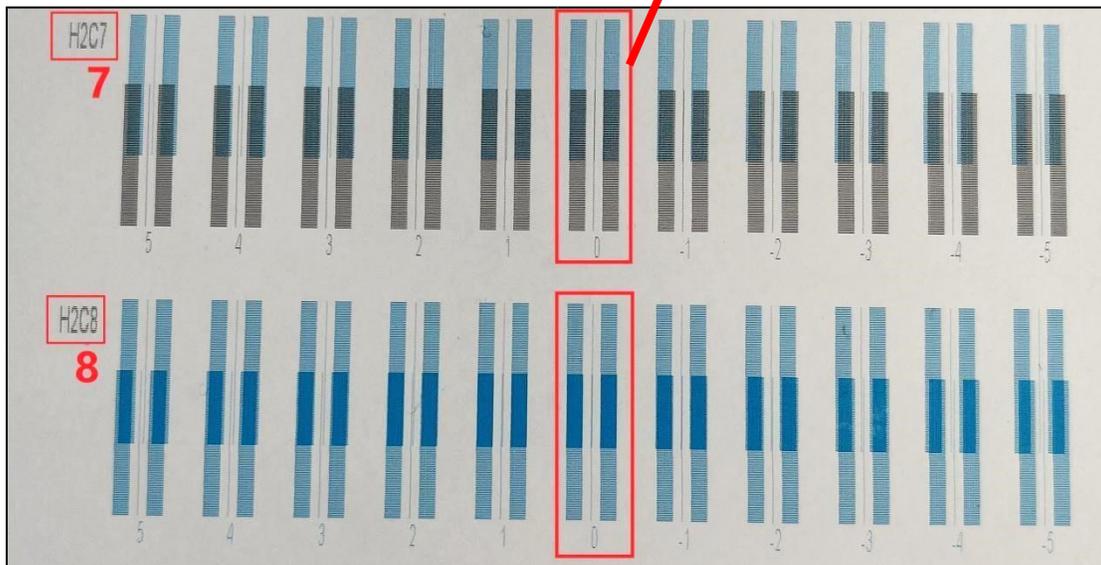
Bidirection: -17

LineWidth1

Head	1 (W2)	2 (W2)	3 (V1)	4 (W1)	5 (K)	6 (K)	7 (C)	8 (C)	9 (M)	10 (M)	11 (Y)	12 (Y)	13 (Lm)	14 (Lm)	15 (Lc)	16 (Lc)
Left	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.5	-1.0	-1.0	0.5	-1.5	0.0	0.0	0.0	0.0
Right	0.0	0.0	0.0	0.5	-1.5	0.0	0.0	1.8	0.5	0.0	-0.8	1.6	1.0	0.0	0.0	1.0
On/Off	<input type="checkbox"/>															
Head	17 (V2)	18 (V2)	19 (V1)	20 (V1)												
Left	1.0	-1.0	-1.0	0.2												
Right	2.0	-0.2	3.5	0.0												
On/Off	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												



Horizontal calibration detail



Notice: Select the value of base color (black) to "add number" to the corresponding value box

8.9 Right Calibration (Group All Calibration) (Line Width 1)

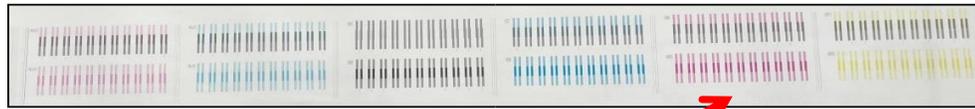
Horizontal **GroupAllCalibration**

Bidirection: -17

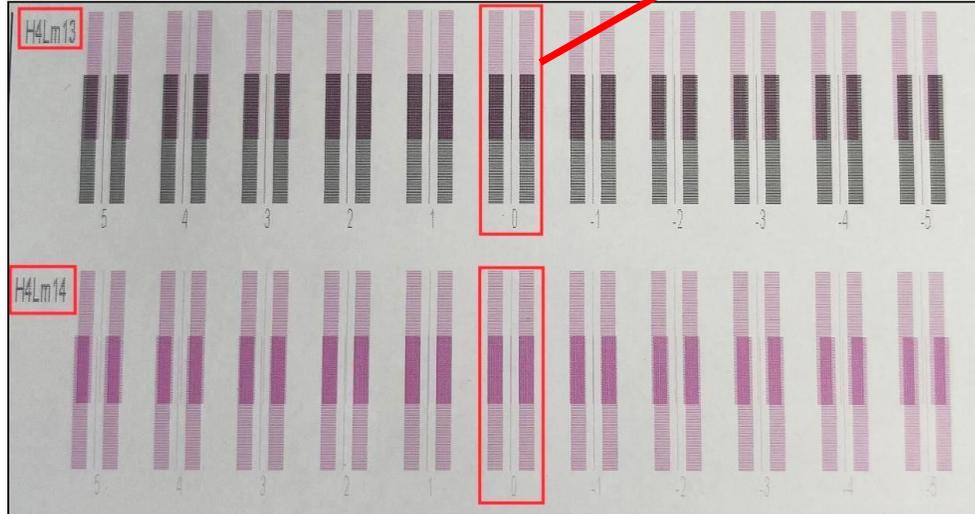
LineWidth1

Head	1 (W2)	2 (W2)	3 (V1)	4 (W1)	5 (K)	6 (K)	7 (C)	8 (C)	9 (M)	10 (M)	11 (Y)	12 (Y)	13 (Lm)	14 (Lm)	15 (Lc)	16 (Lc)
Left	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.5	-1.0	-1.0	-1.5	0.5	-1.5	0.0	0.0	0.0
Right	0.0	0.0	0.0	0.5	-1.5	0.0	0.0	1.8	0.5	0.0	-0.8	1.6	1.0	0.0	0.0	1.0
On/Off	<input type="checkbox"/>															
Head	17 (V2)	18 (V2)	19 (V1)	20 (V1)												
Left	1.0	-1.0	-1.0	0.2												
Right	2.0	-0.2	3.5	0.0												
On/Off	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												



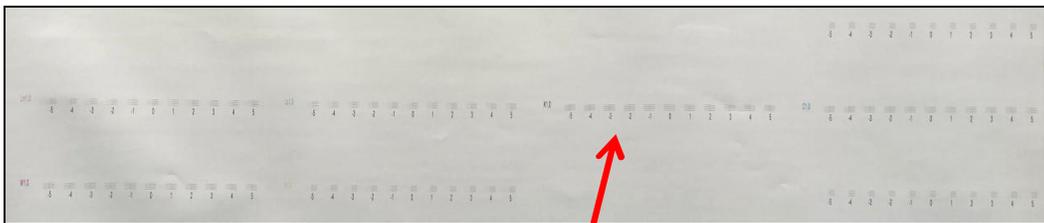
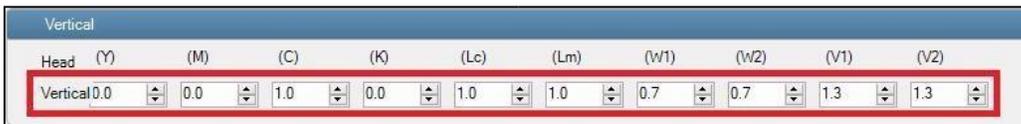


Horizontal calibration detail

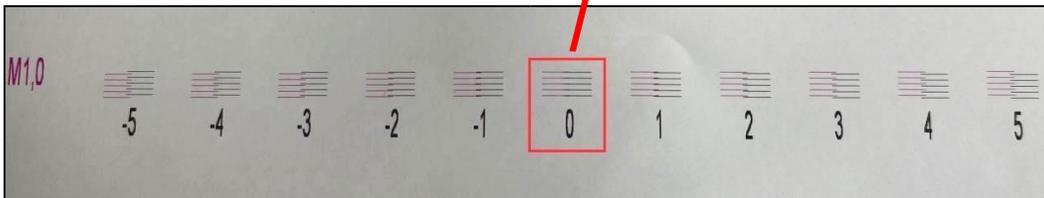


Notice: Select the value of base color (black) to “add number” to the corresponding value box

8.10 Vertical Calibration



Vertical calibration detail



Notice: Select the value of base color (black) to “add number” to the corresponding value box



8.11 Overlap Calibration

OverLap										
Head	(Y)	(M)	(C)	(K)	(Lc)	(Lm)	(W1)	(W2)	(V1)	(V2)
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

Notice: Backup (NO USE)

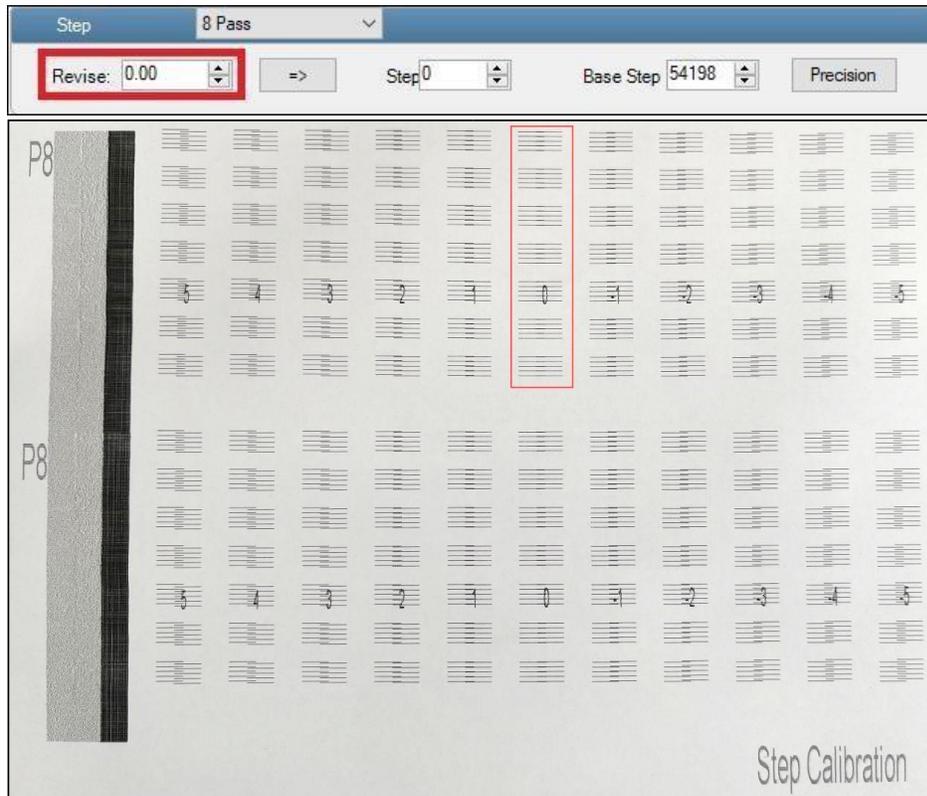
8.12 "6 and 8 Pass Step Calibration

Step 6 Pass

Revise: 0.00 => Step 0 Base Step 54171 Precision

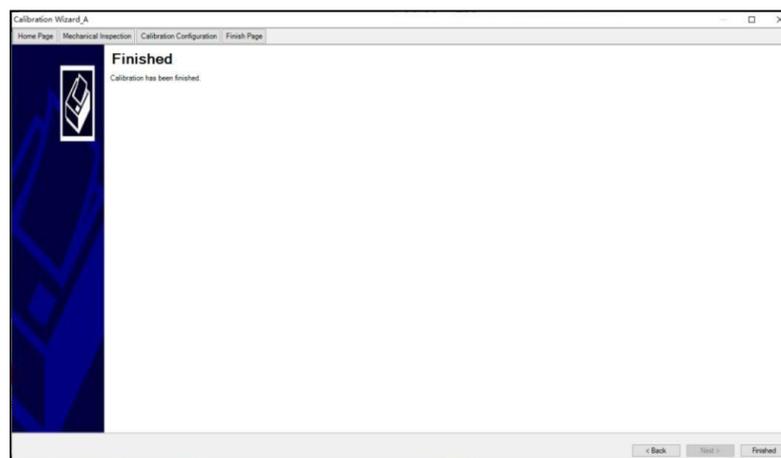
Notice: There are ten groups of overlapping areas when printing the stepper calibration diagram. Look at the five groups above, select the cross section and fill the corresponding number into the revise column. Click the arrow button next to it, the software will automatically calculate the step value





Notice: There are fourteen groups of overlapping areas when printing the stepper calibration diagram. Look at the seven groups above, select the cross section and fill the corresponding number into the revise column. Click the arrow button next to it, the software will automatically calculate the step value

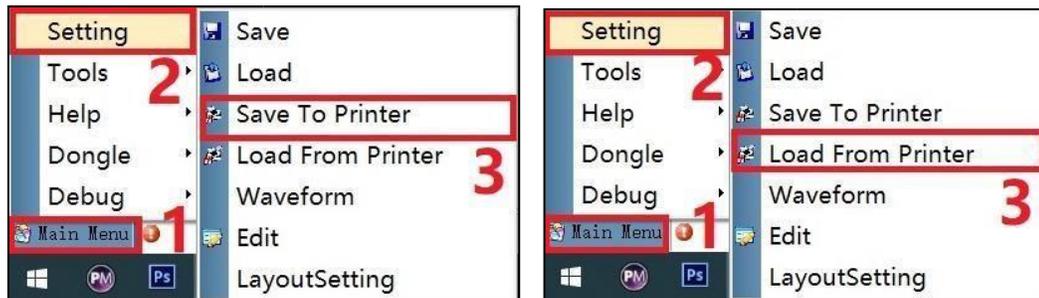
8.13 Finish



8.14 Save to computer parameters / Load from computer parameters



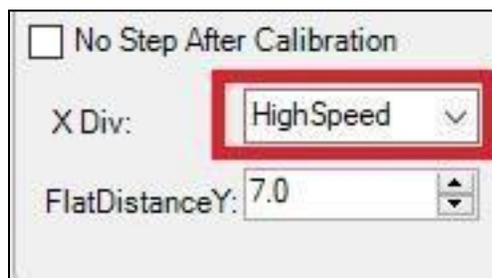
Notice: Save the calibration parameters to the computer parameters file, which can be imported into the computer to save the parameters file after updating or reinstalling the software



8.15 Save to printer parameters / Load from printer parameters

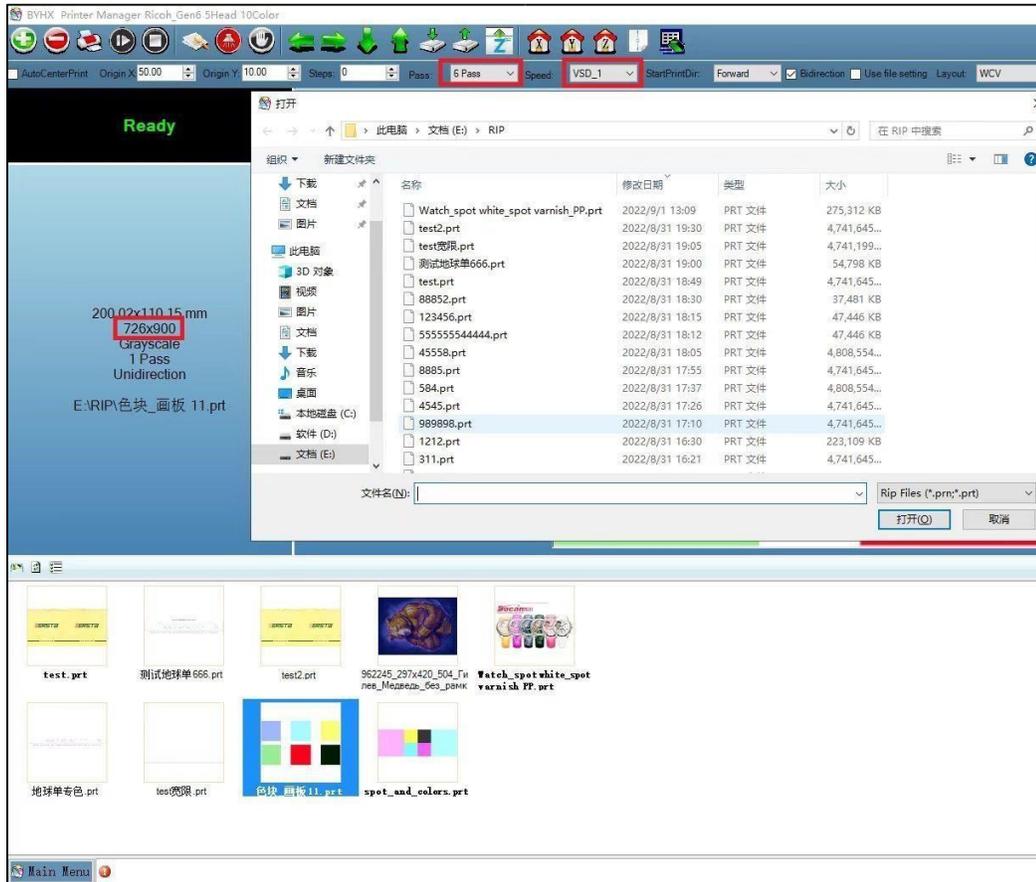
Notice: Save the calibration data to the printer motherboard for storage. After updating or reinstalling software, you can import the parameters from the motherboard to the software

8.16 Printing Setting/Printer/X Div (High Speed)



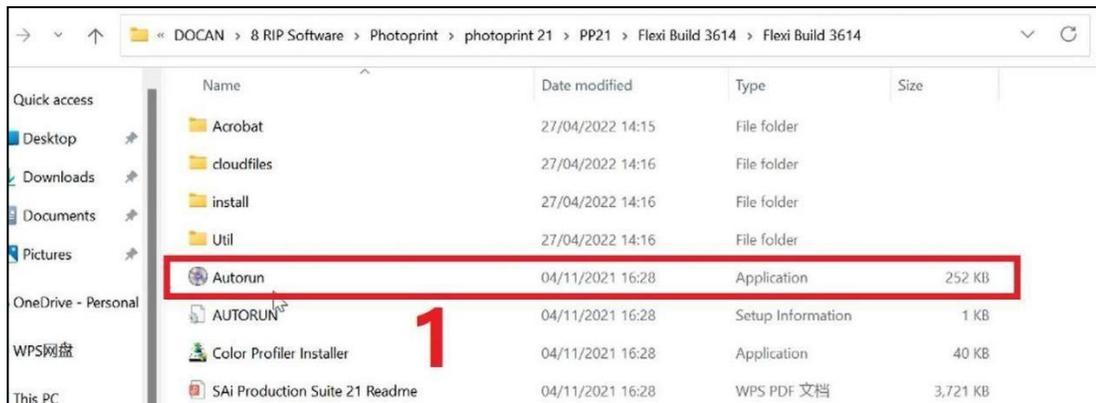
RIP software use 726x900 dpi ICC, choose 6pass, Speed VSD_1, Choose layout model, can print jobs

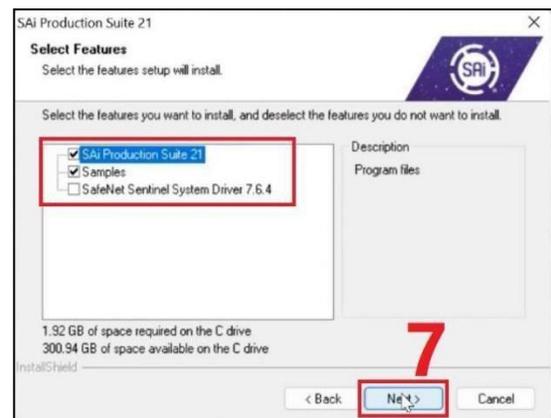
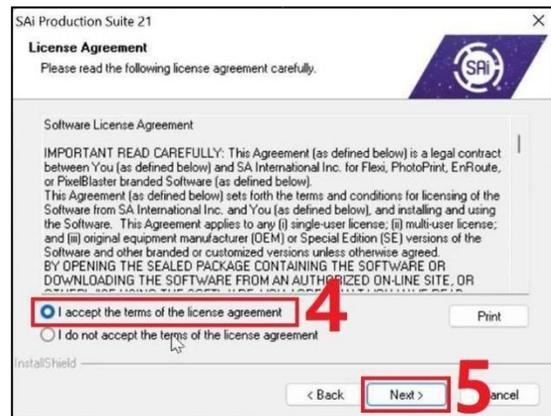
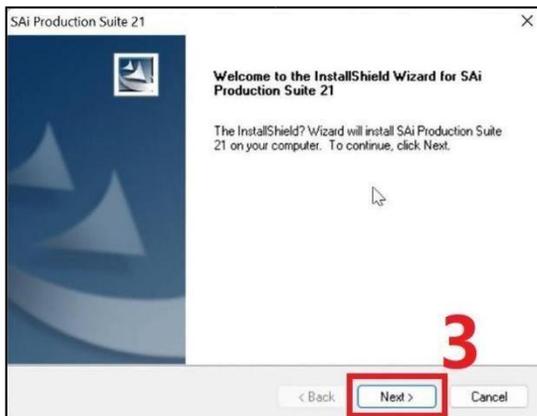
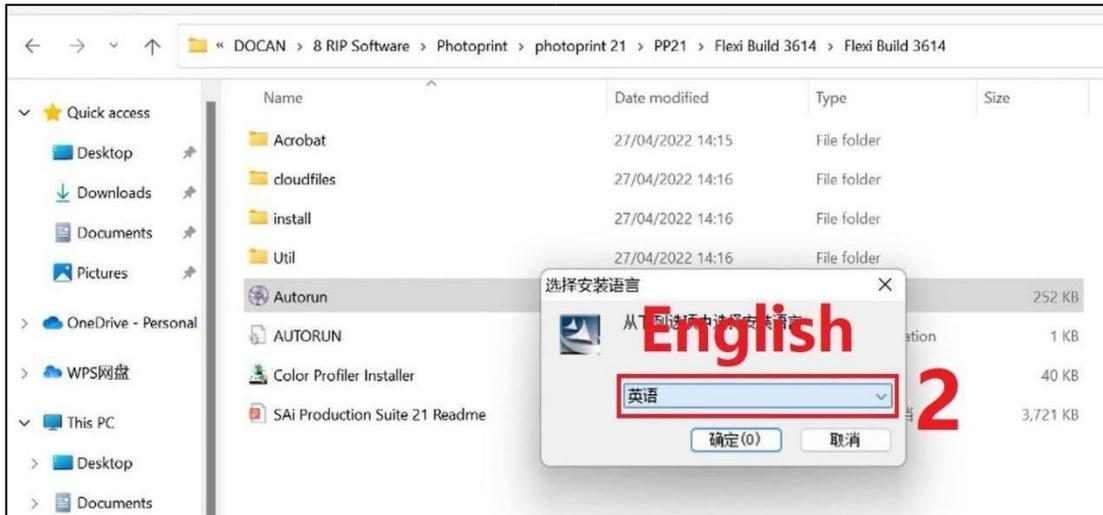




9. Photoprint 21 Software Installation

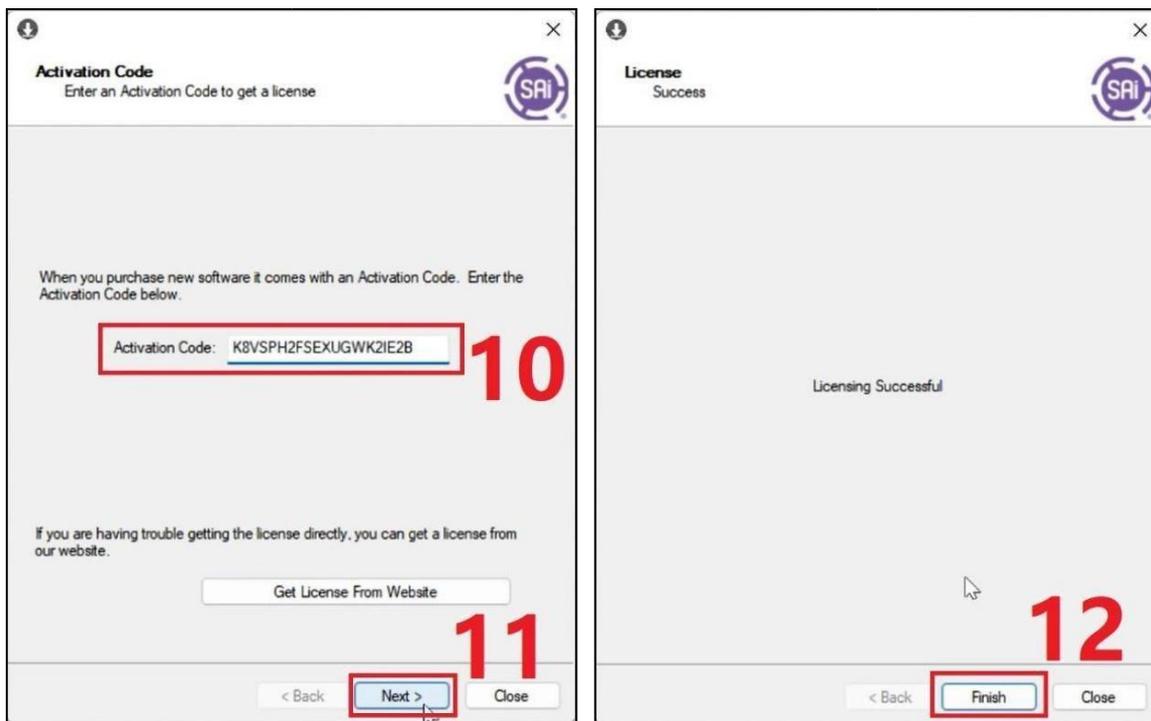
9.1 Running Photoprint Software Installation Package

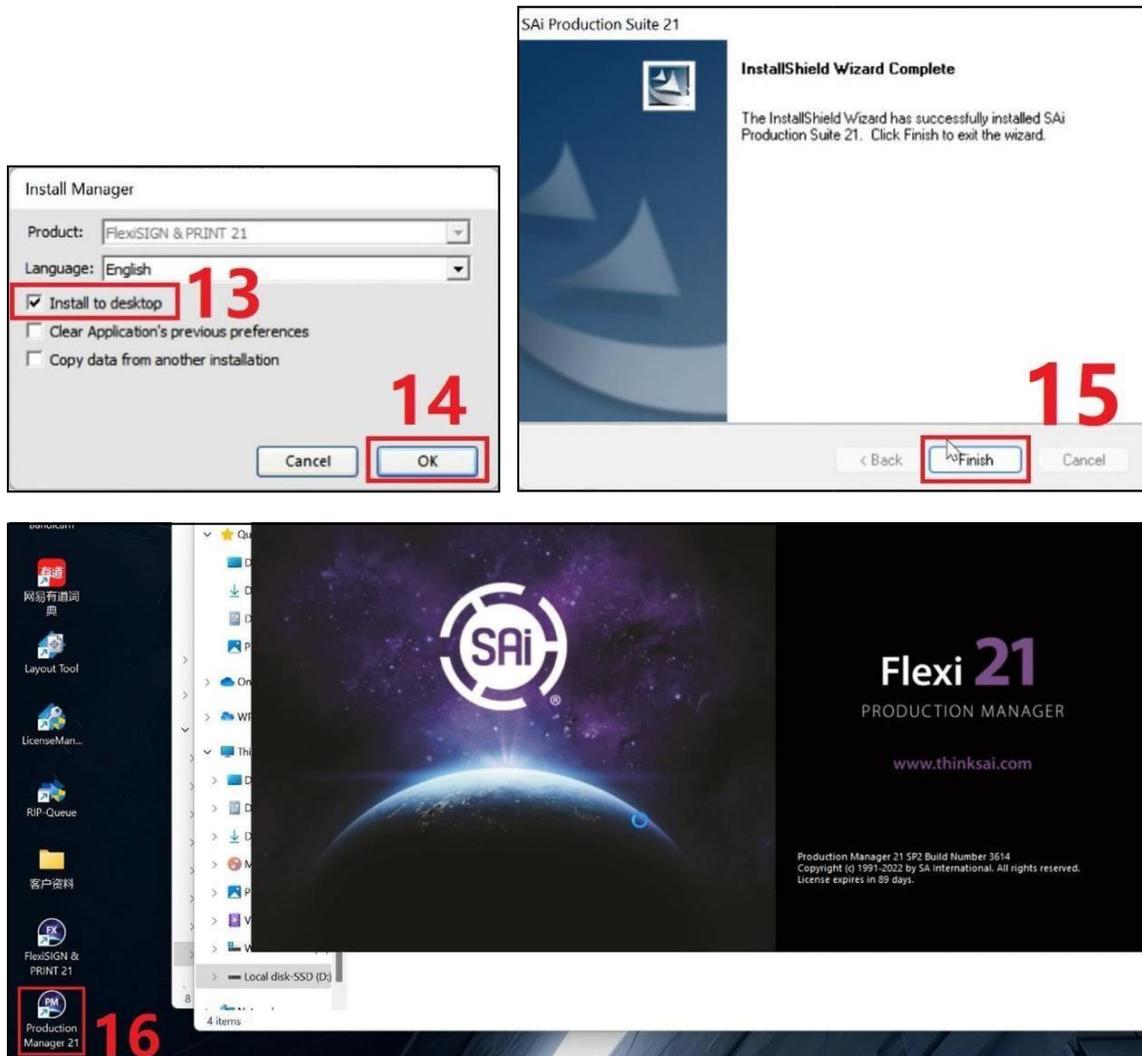






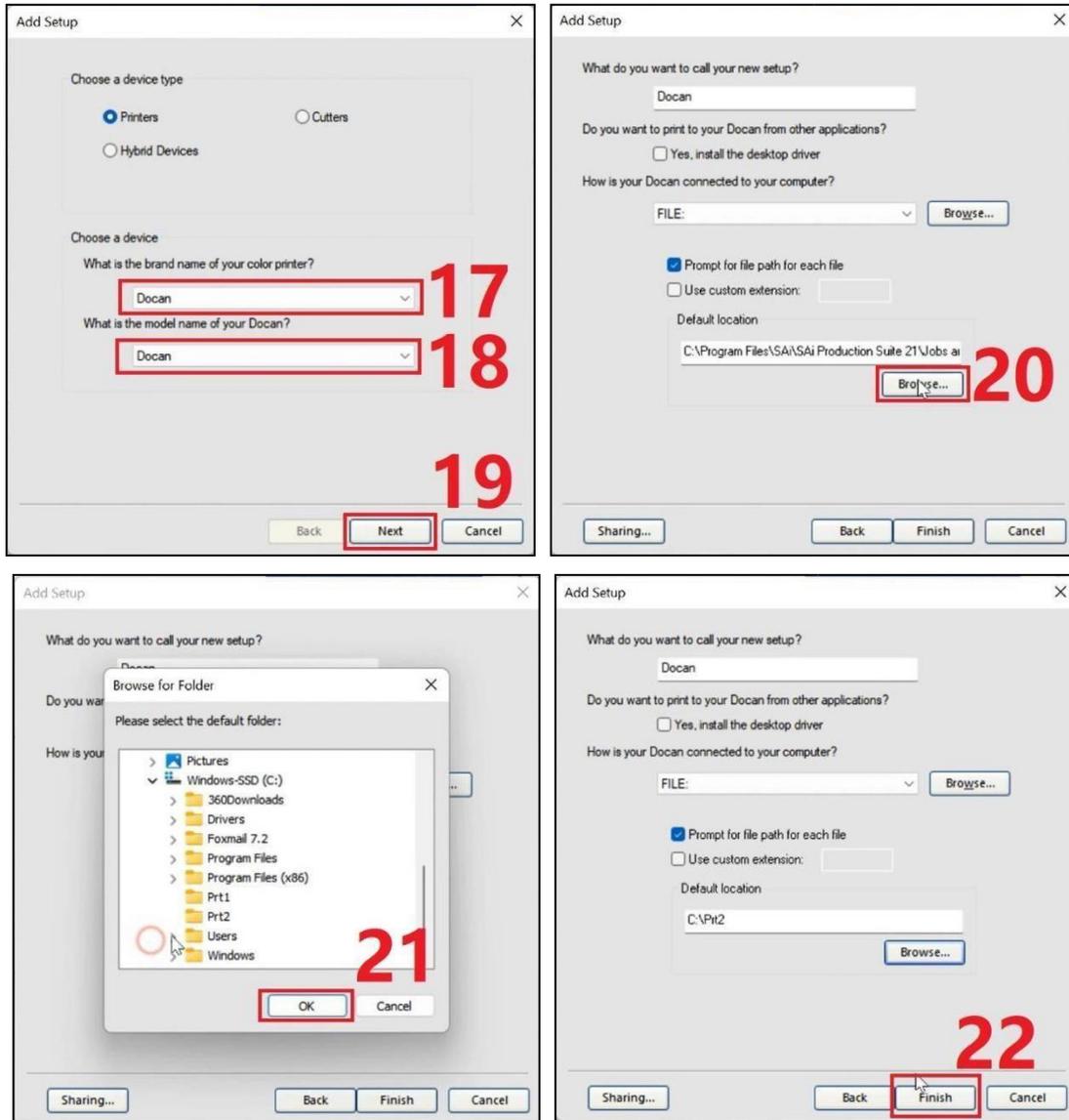
9.2 Input activation code for photoprint (Activation code on the software box)





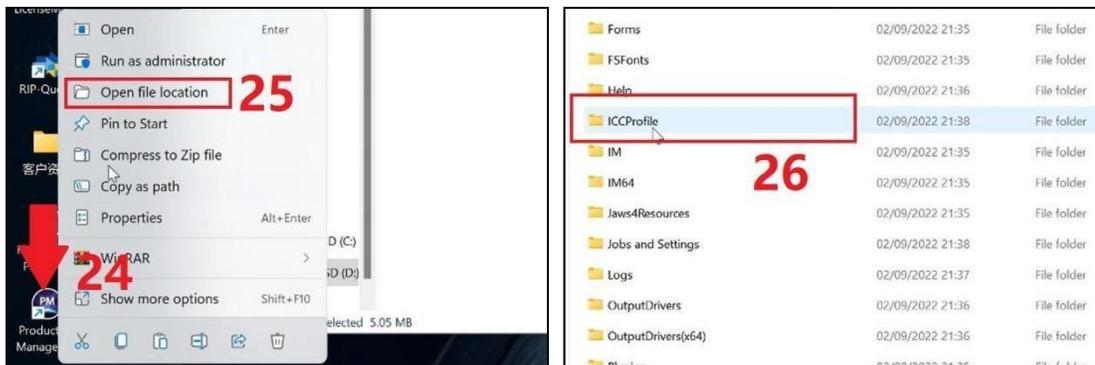
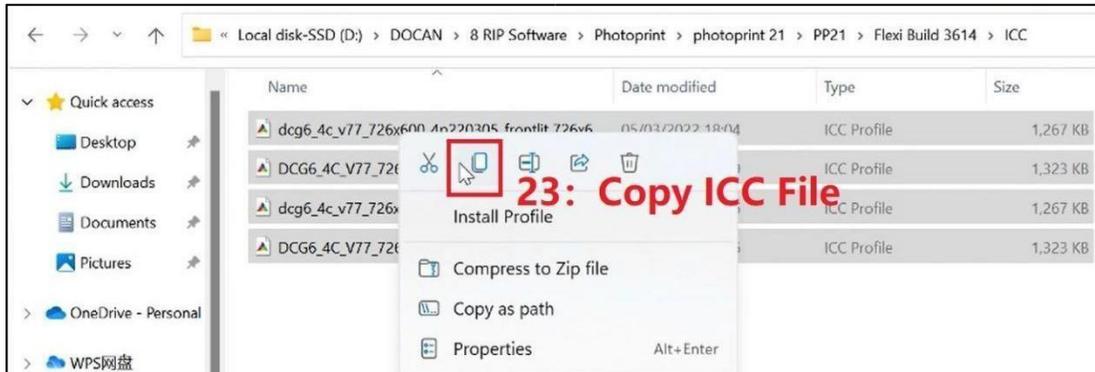
9.3 Choose "Docan" printer





9.4 Copy ICC file Paste to This PC/Windows C:/Program Files/SAI/SAI Production suite 21/ ICCProfile/Polaroid folder





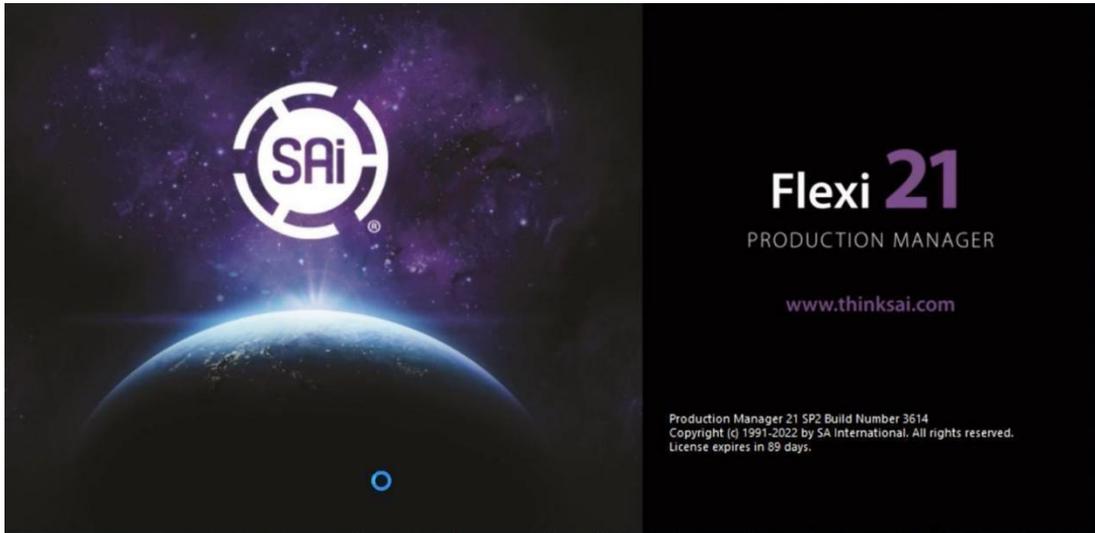
10. Operation Photoprint 21

Photoprint 21

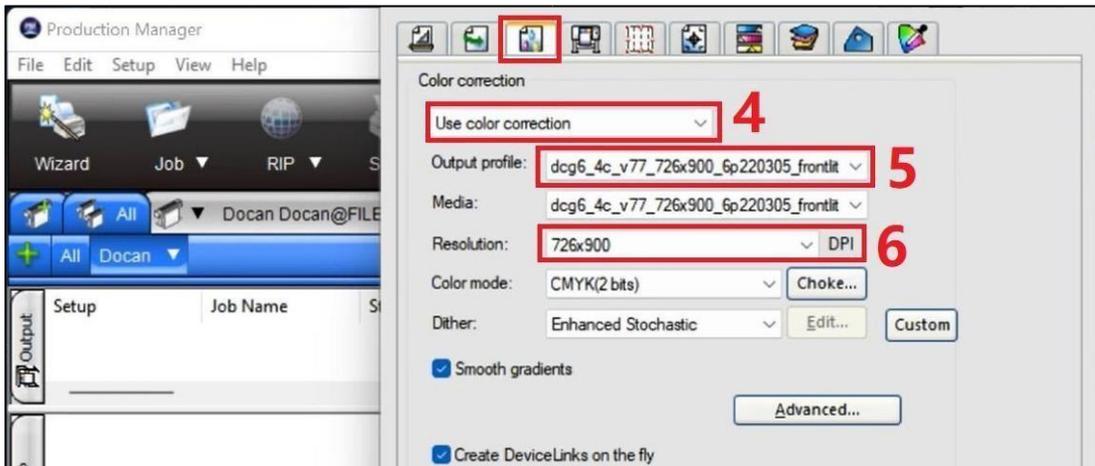
10.1 Double click Production Manager 21

Production Manager 21

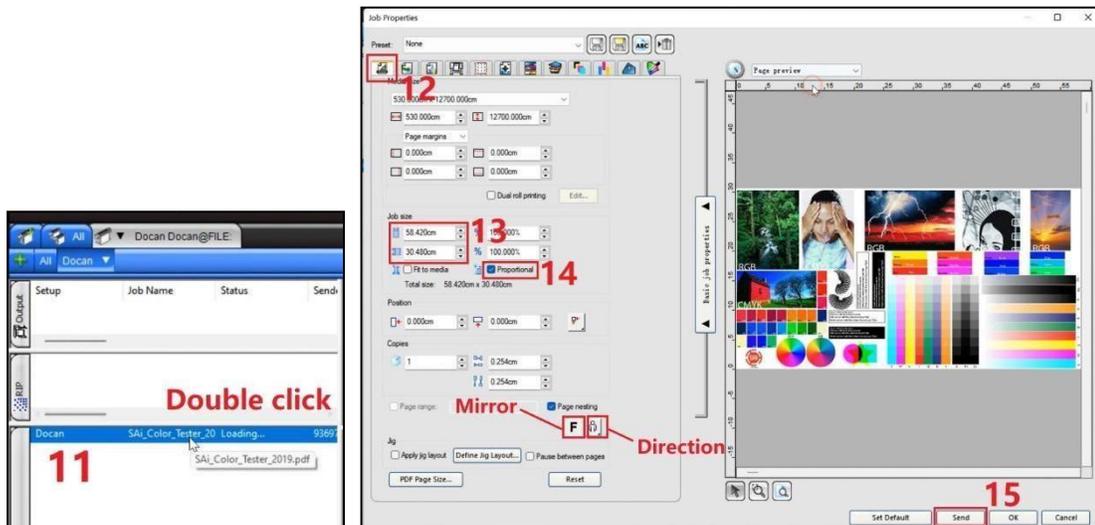
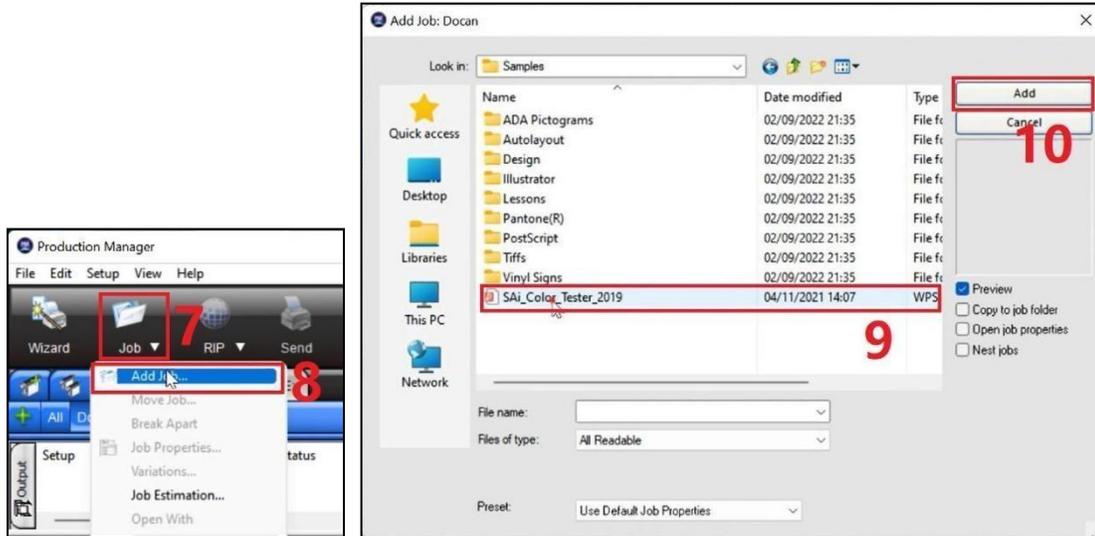




10.2 Setting default job properties

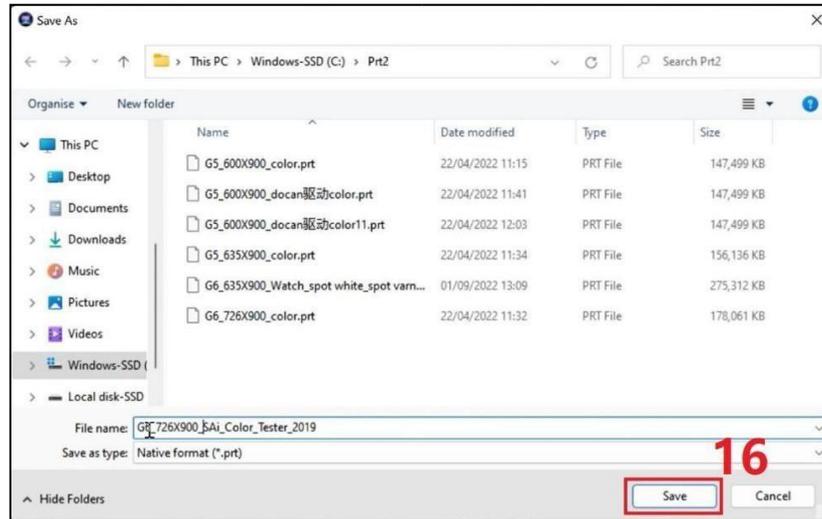


10.3 Loading job for rip

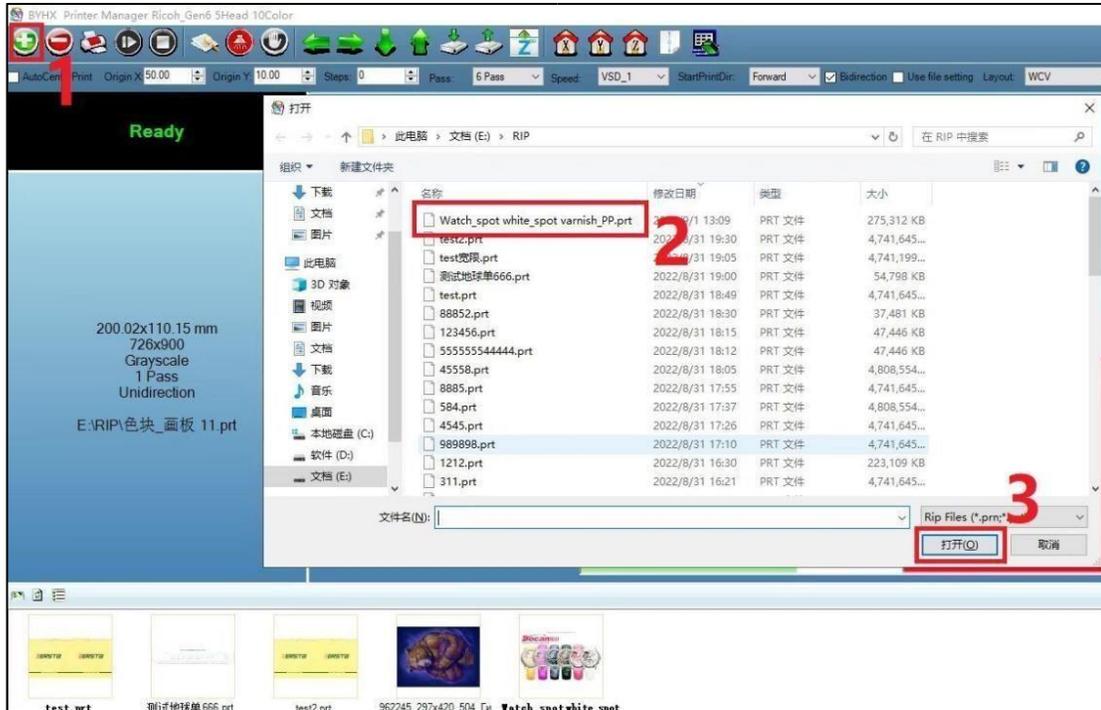


10.4 Save as and RIPPING Printing





10.5 Loading print used image “prt” file to printer manager software



polaroid

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