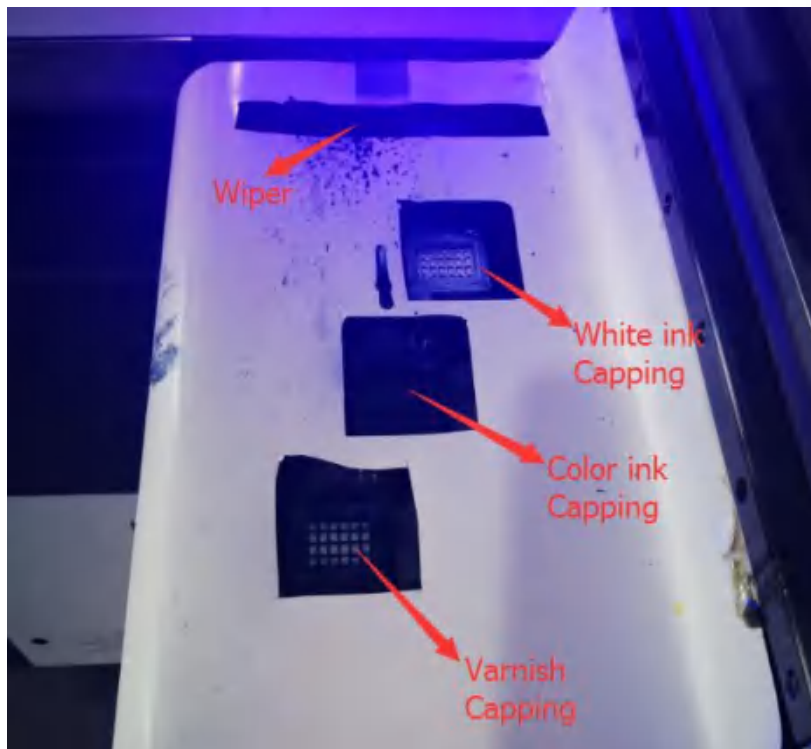

UV-9060 INKJET PRINTER MACHINE OPERATING INSTRUCTION MANUAL



**Please read this manual carefully before operation.
Equipment photos are for reference only and subject to actual product.**

I、 The machine structure picture

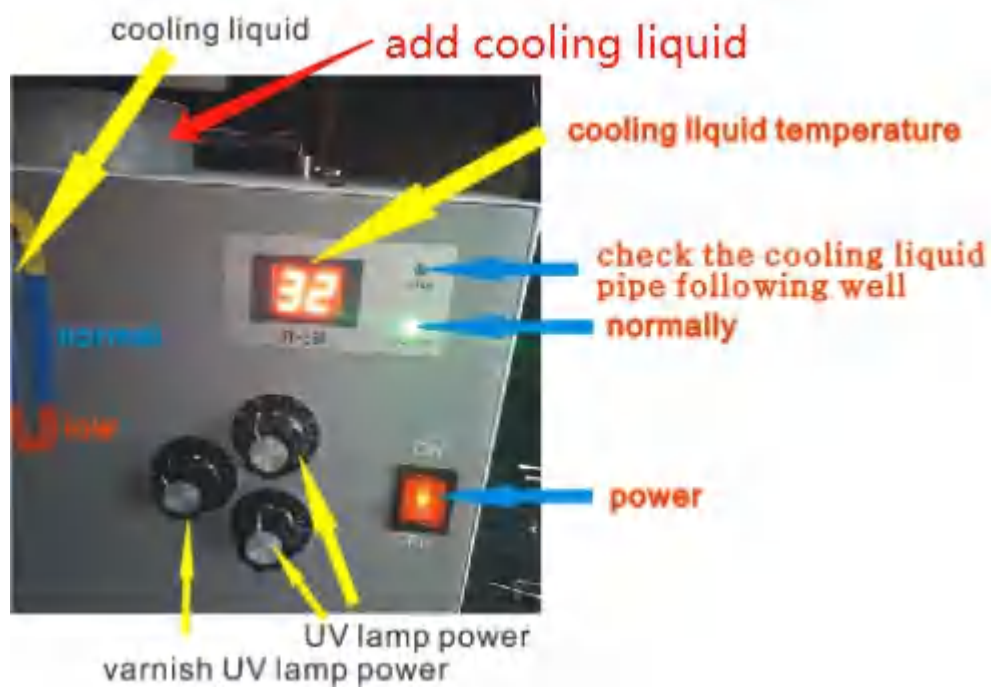


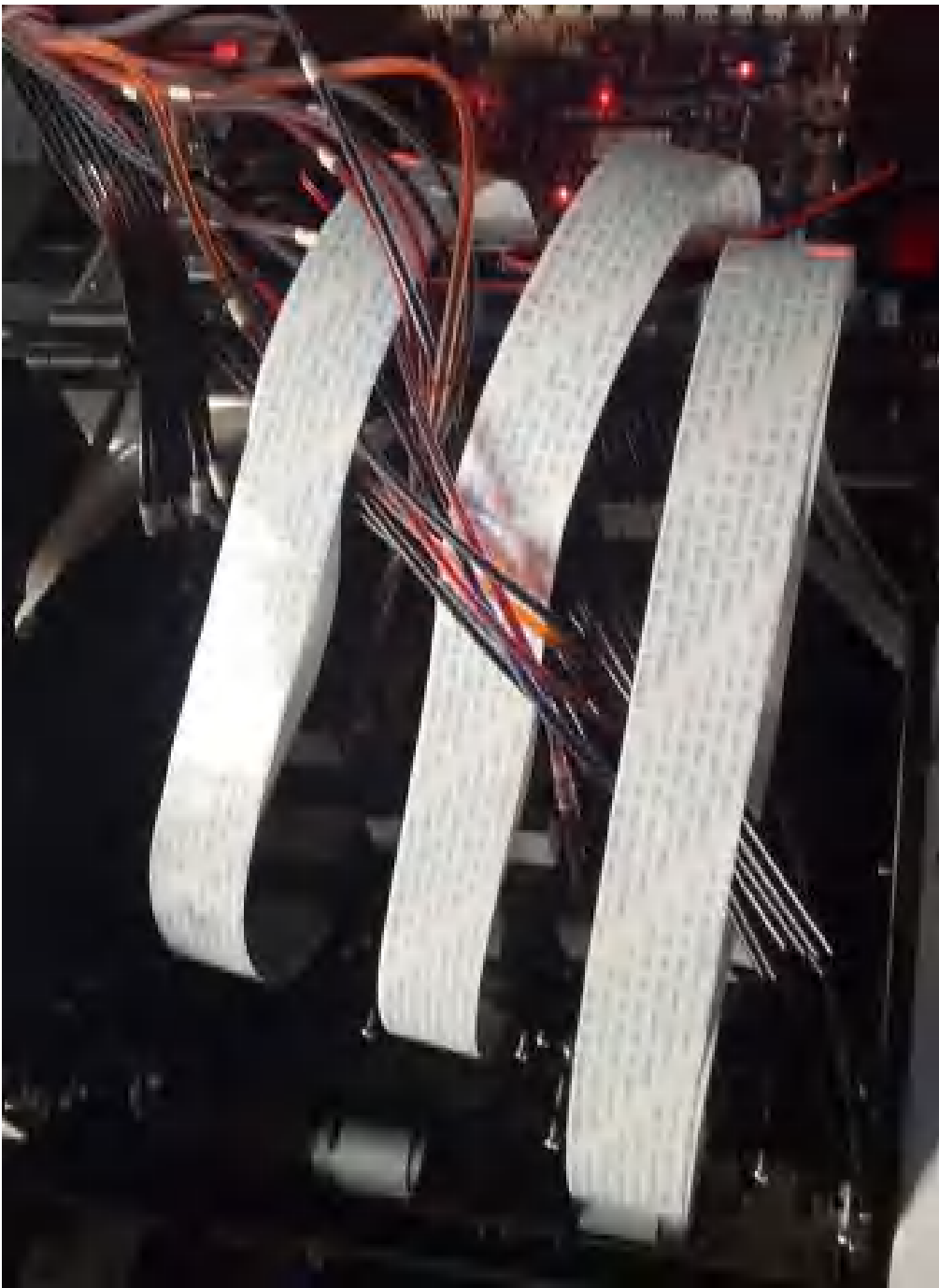
When you install printer Move out retaining screw two side .Every time move machine before you need install them back .





Open the door then connect UV LED box cable
Install damper

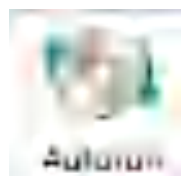




II、PhotoPrint install :

Your computer system must be Windows7 64-bit!!!
All files name must be English !!!

1、 Open photoprint content, double click

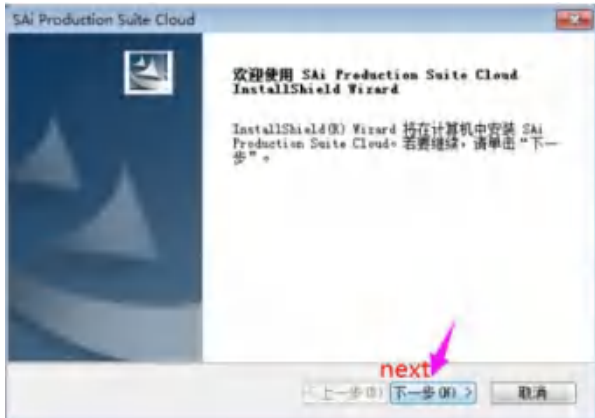


install it and **insert the dongle**

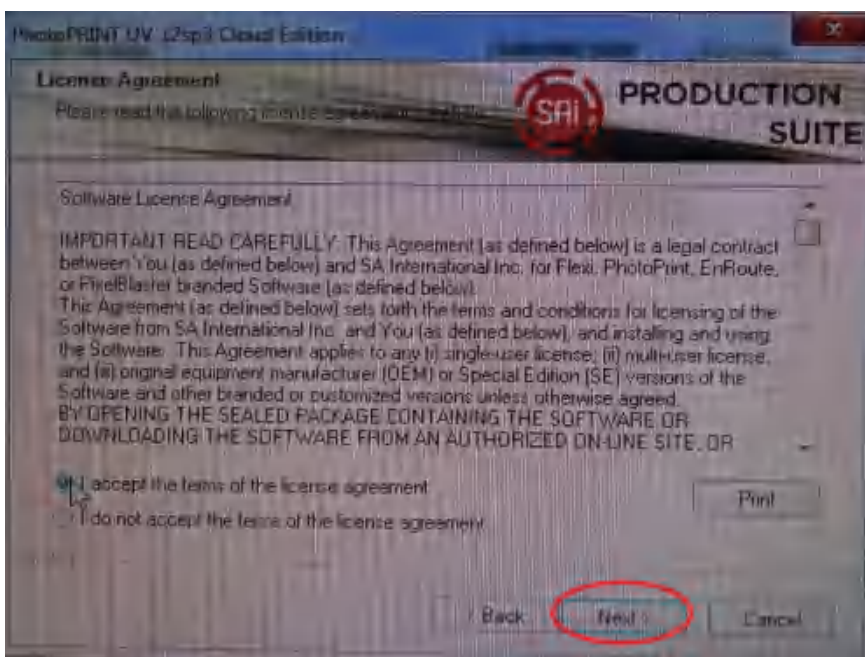
into USB

2.Choose the language and enter it.

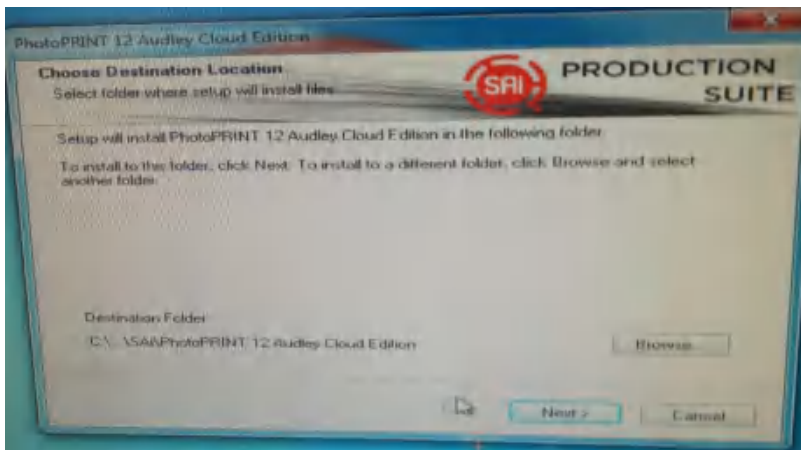
3、 When you see below picture, then click the next step



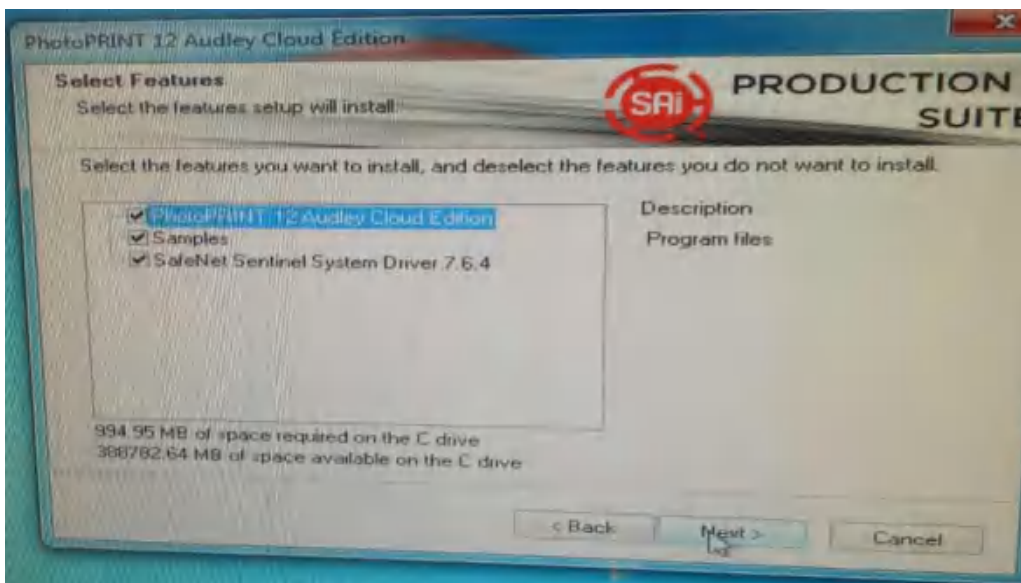
4、 Click the circle ‘ i accept the agreed terms’, then click the next step.



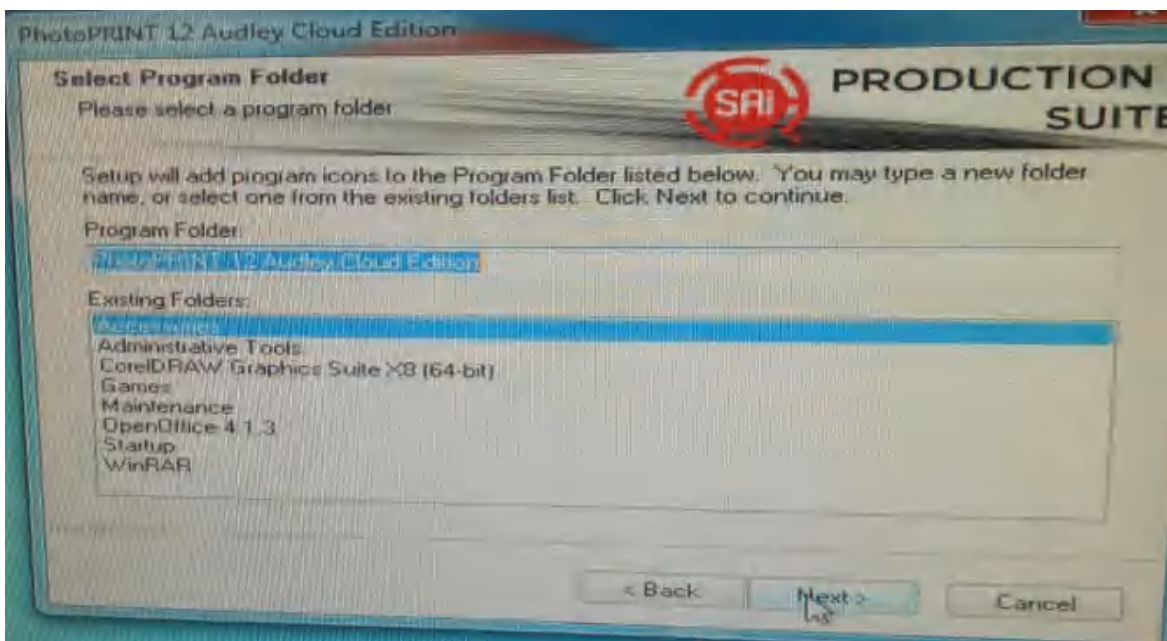
5.You can choose click Browse, and choose which disk you want to install, then click next step



6、 click' SafeNet Sentinel System Driver7.6.4', then click next step.



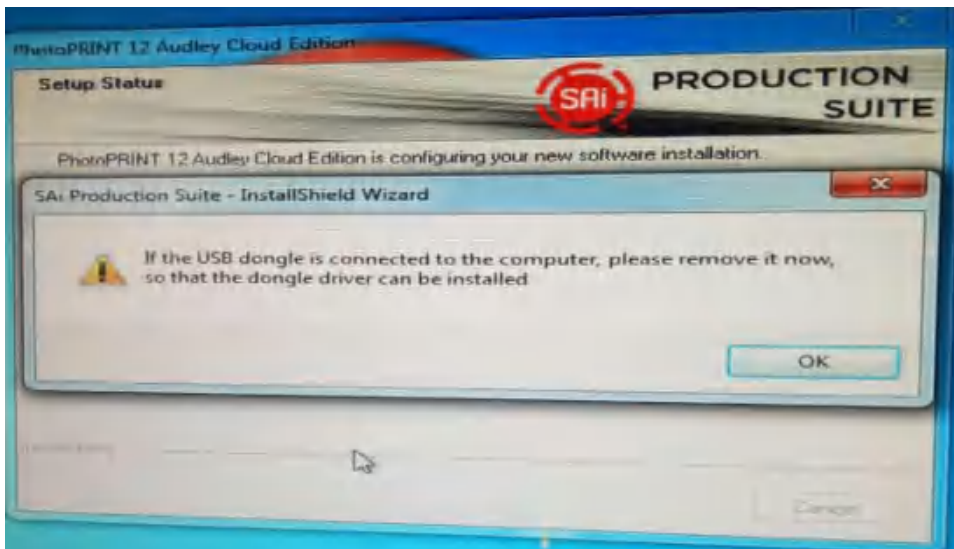
7、 Click next step.





8、

9、 **Please remove the softdog** until below screenshot, then enter it.

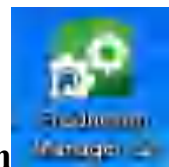
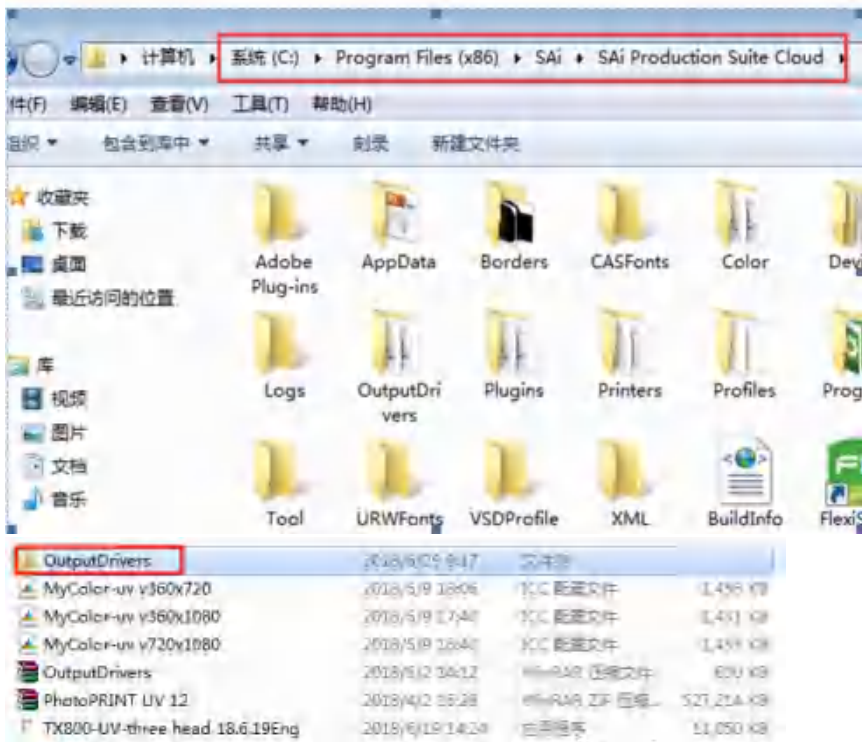


10、 Click finish botton.



III、 PhotoPrint software setting :

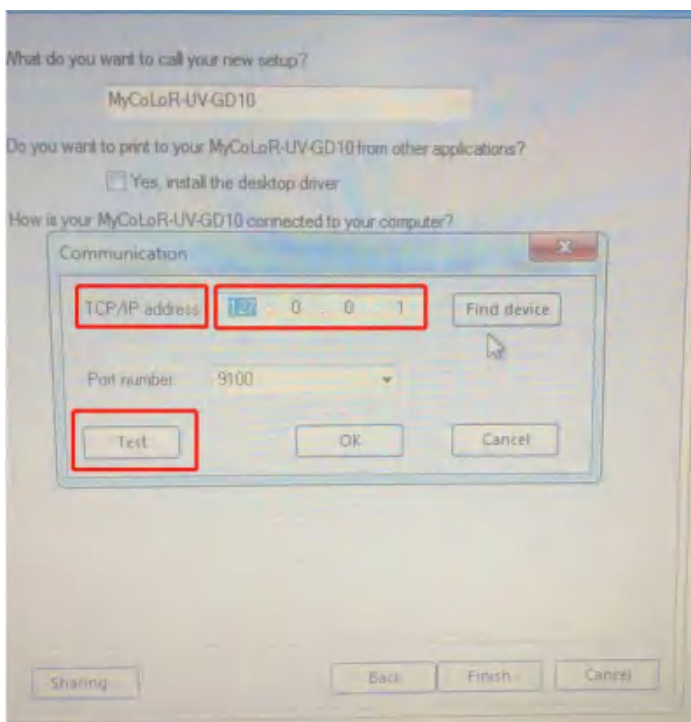
1、 Delete **pristine outputdriver file** then copy audley usb flash 'outputDrivers' file to the catalogue



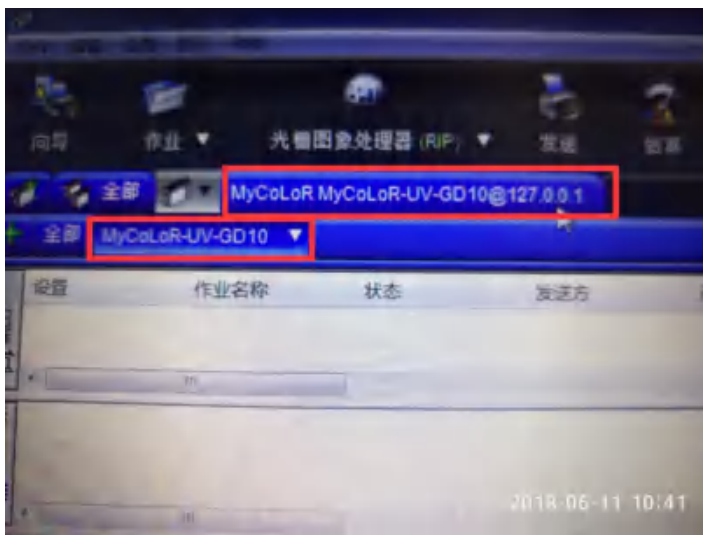
3.put dongle in compute .Double click this icon

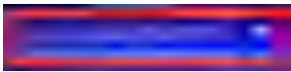
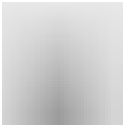
4. Select MyCoLoR-UV-GD10 , then click next step

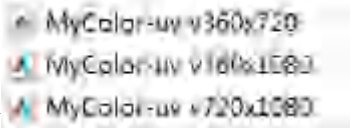
5.Change connect port to TCP/IP : 127.0.0.1

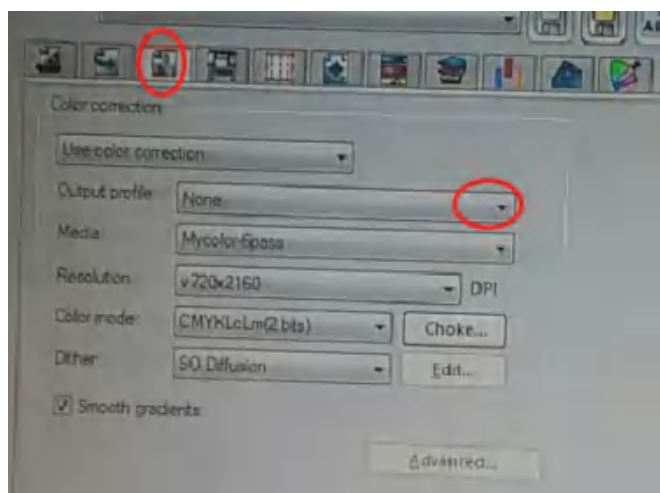


6.Click finish icon

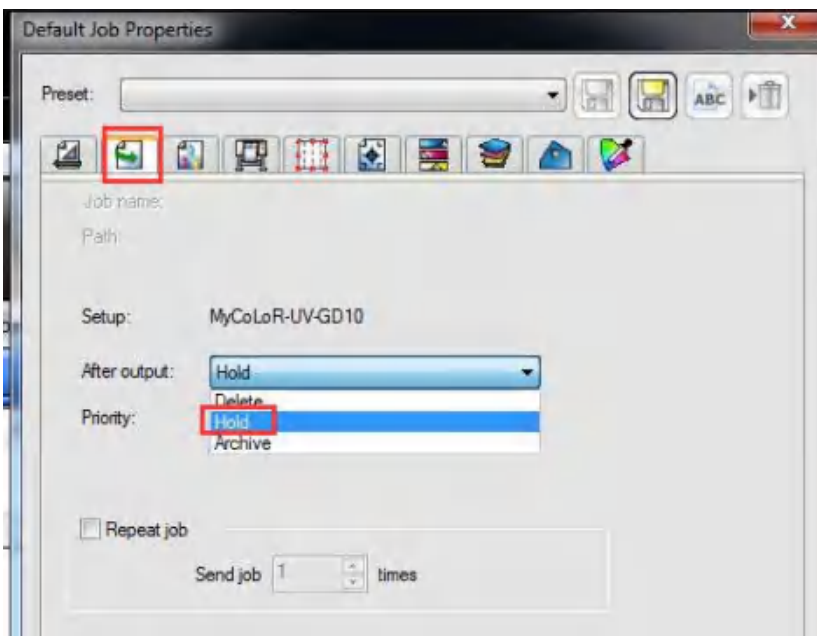
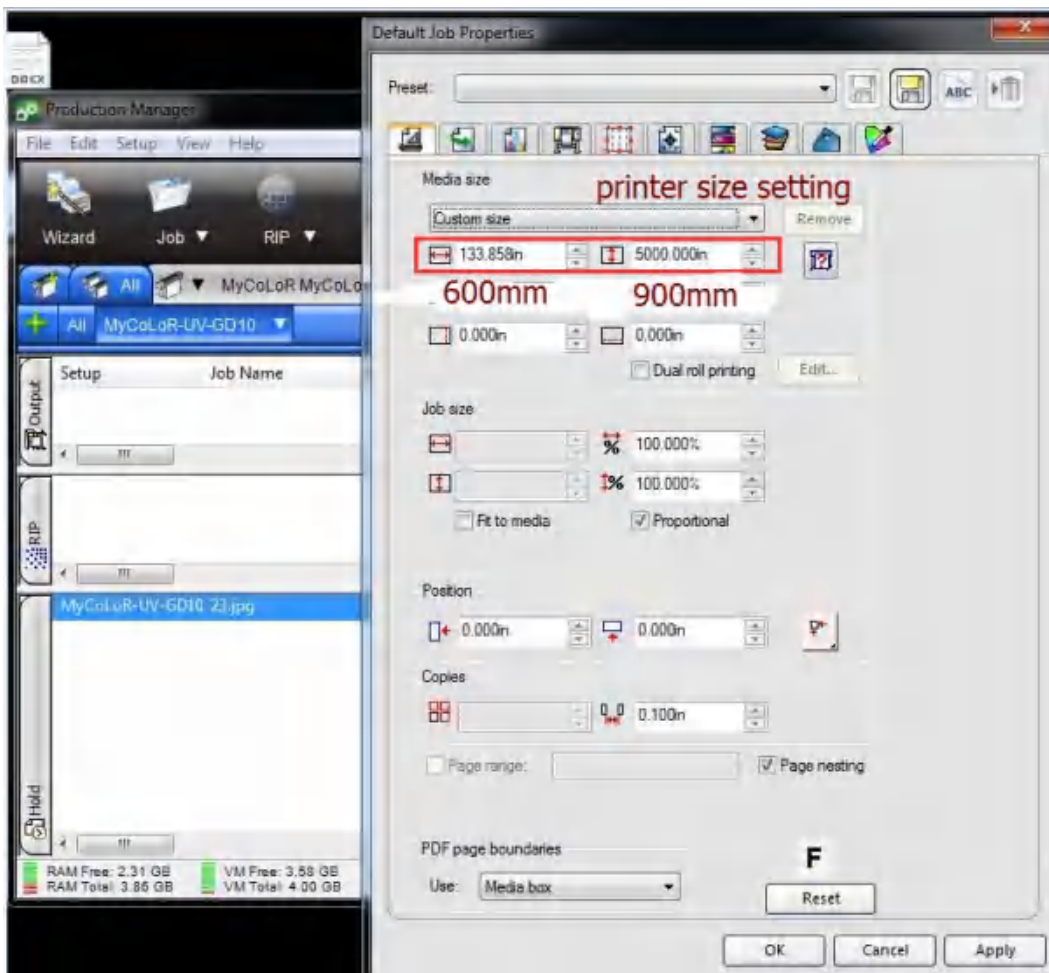


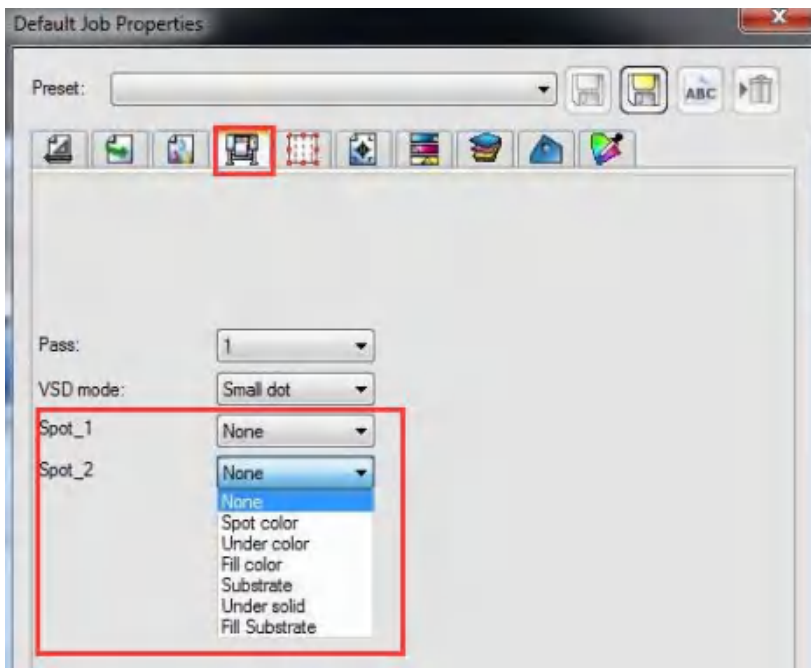
6. Double Click , click  icon, click inverted black triangle in

output configuration, find the audley installation file , then click , ,



then open it, finally enter it.





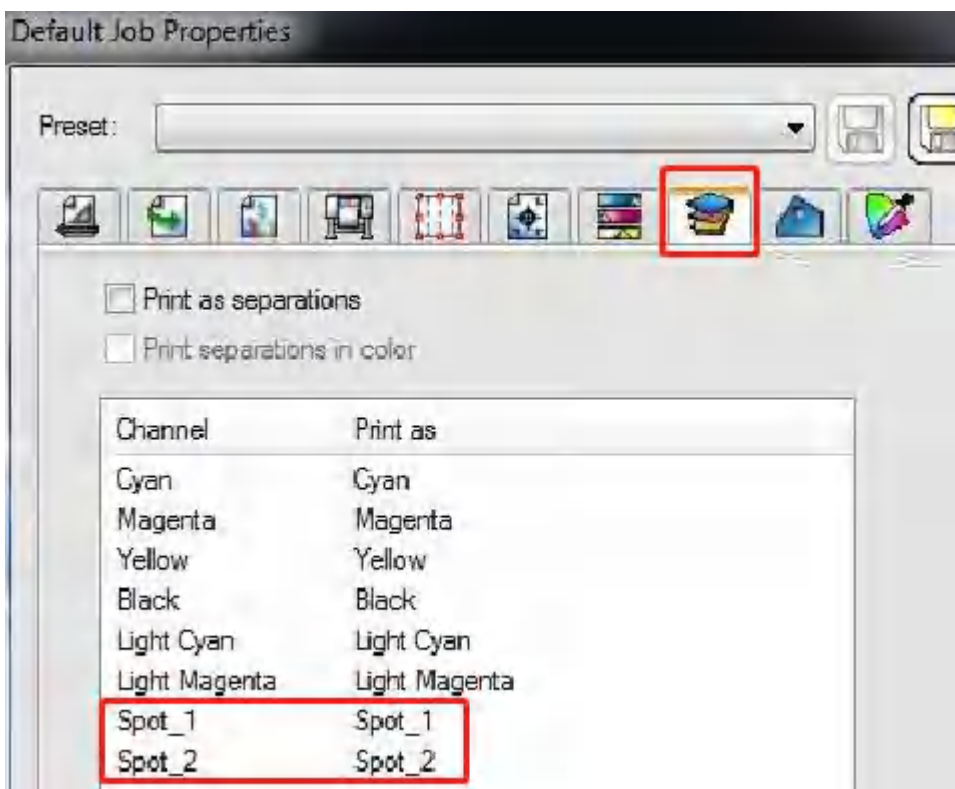
None : not print white

Under color: only print white under the color

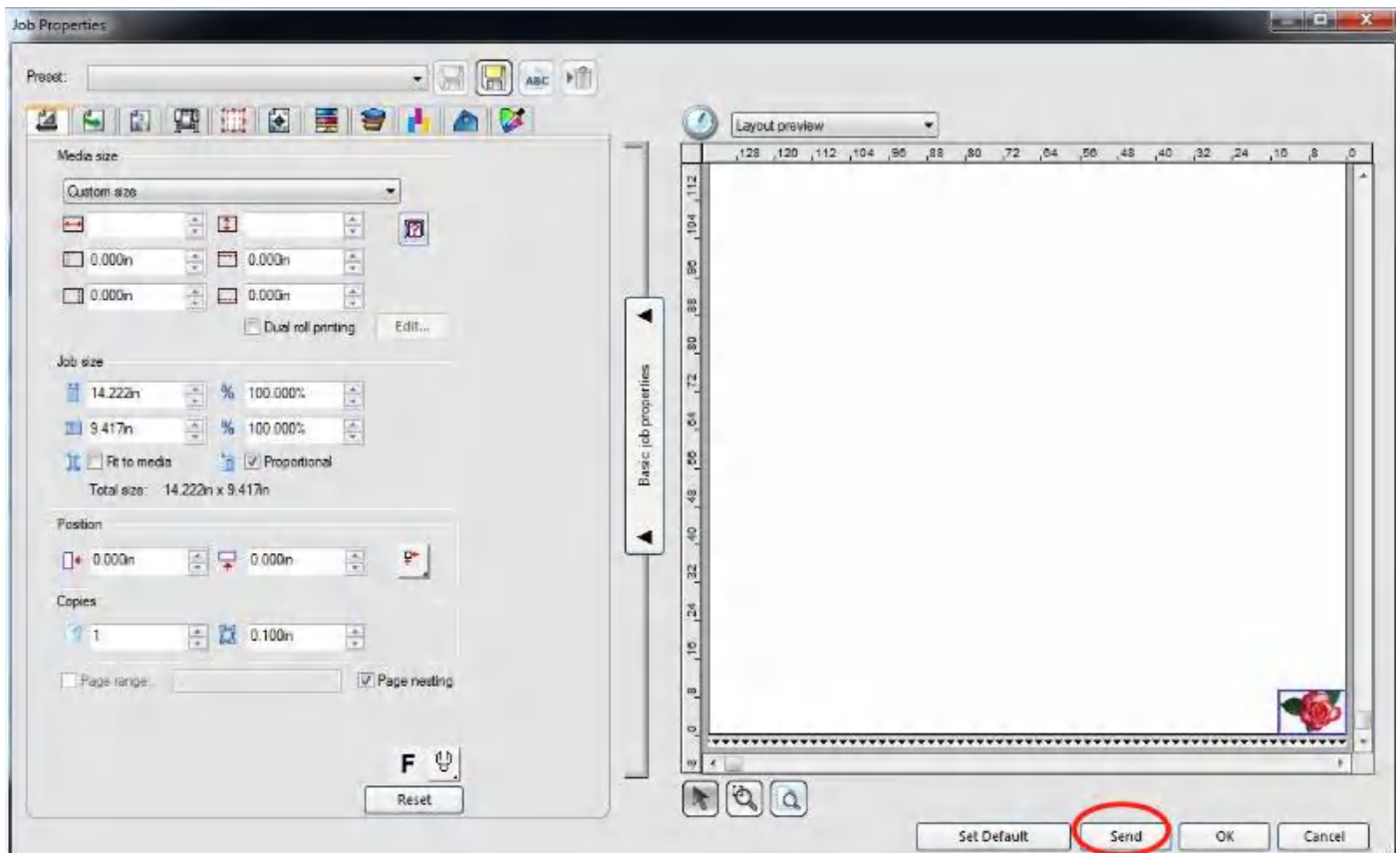
Spot color: need make spot color in the photoshop

Substrate : full white print in the photo

Spot_1: white color .spot_2 : varnish print



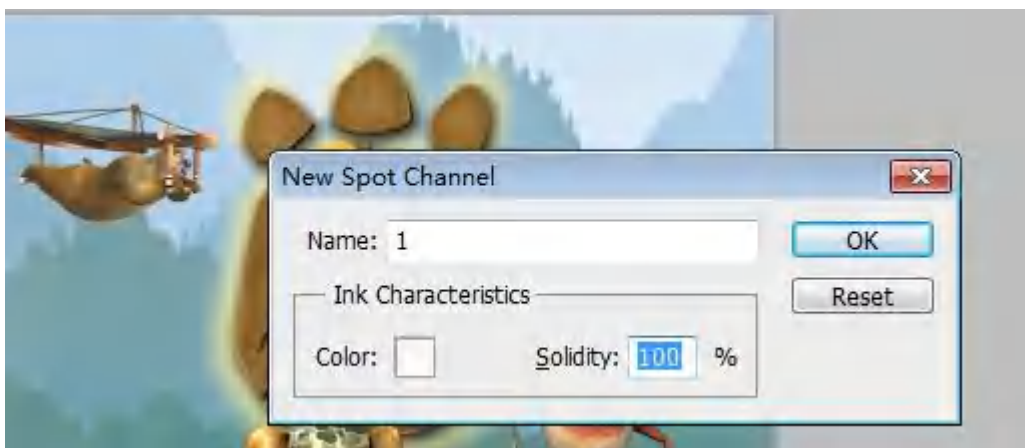
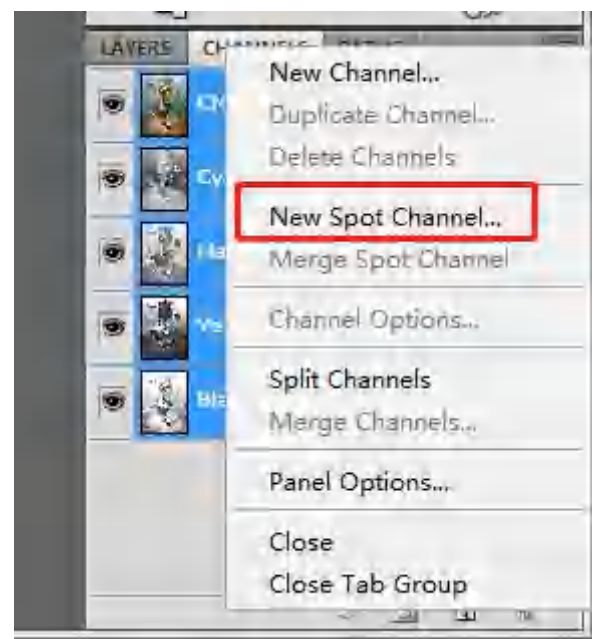
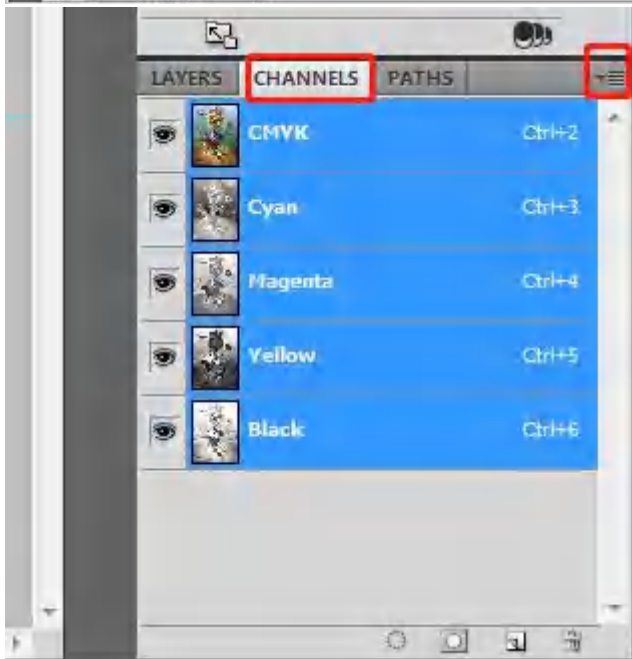
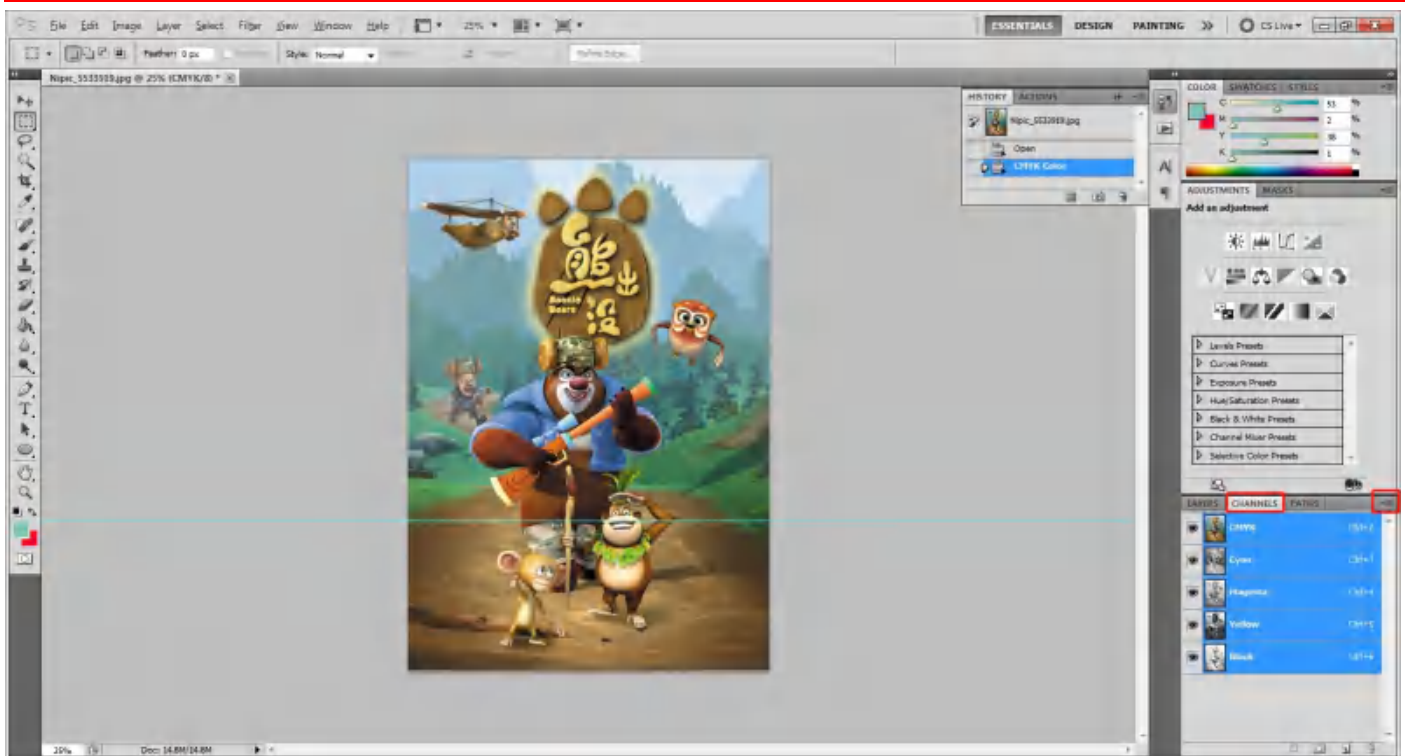
This spot need make it in the photoshop .



Make white and varnish port

1.select you want print region



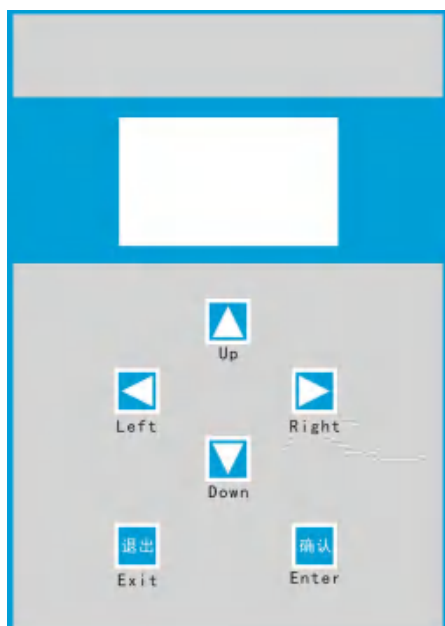




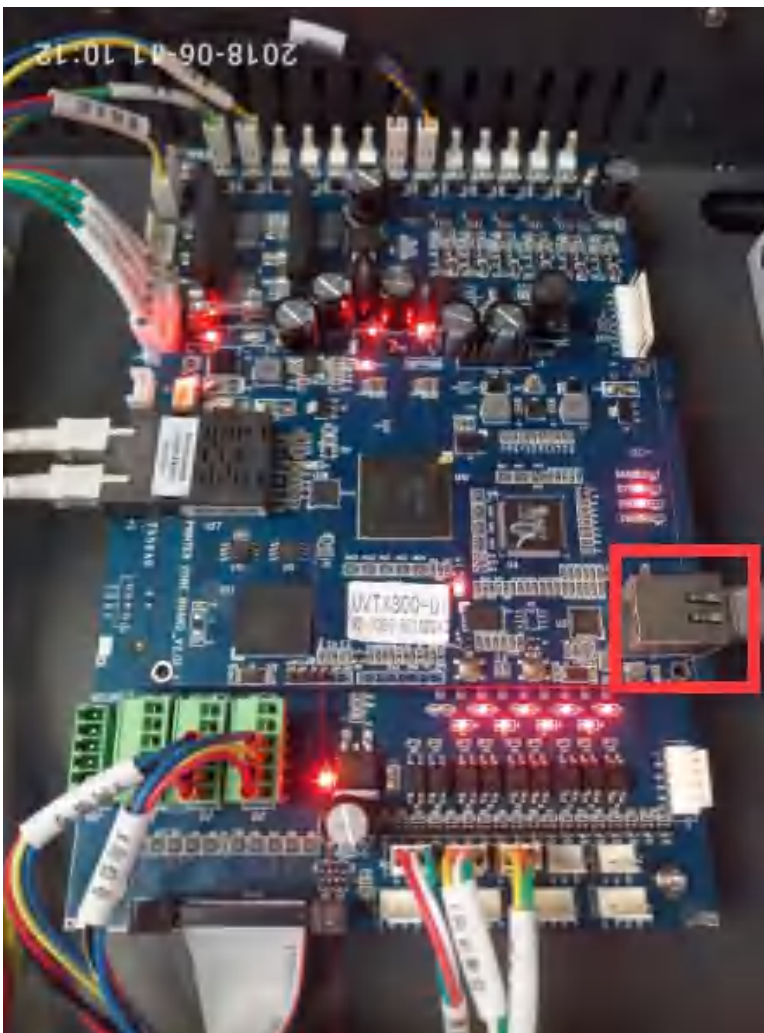
You can make two or more .

IV、 Equipment switch manual :

4.1 Panel menu structure



向上/Up-----Material go backward
 向下/Down -----Material go forward
 向左/left-----Carriage go left
 向右/Right -----Carriage go right
 退出/Exit-----Back to Manual
 确定/Enter-----Enter

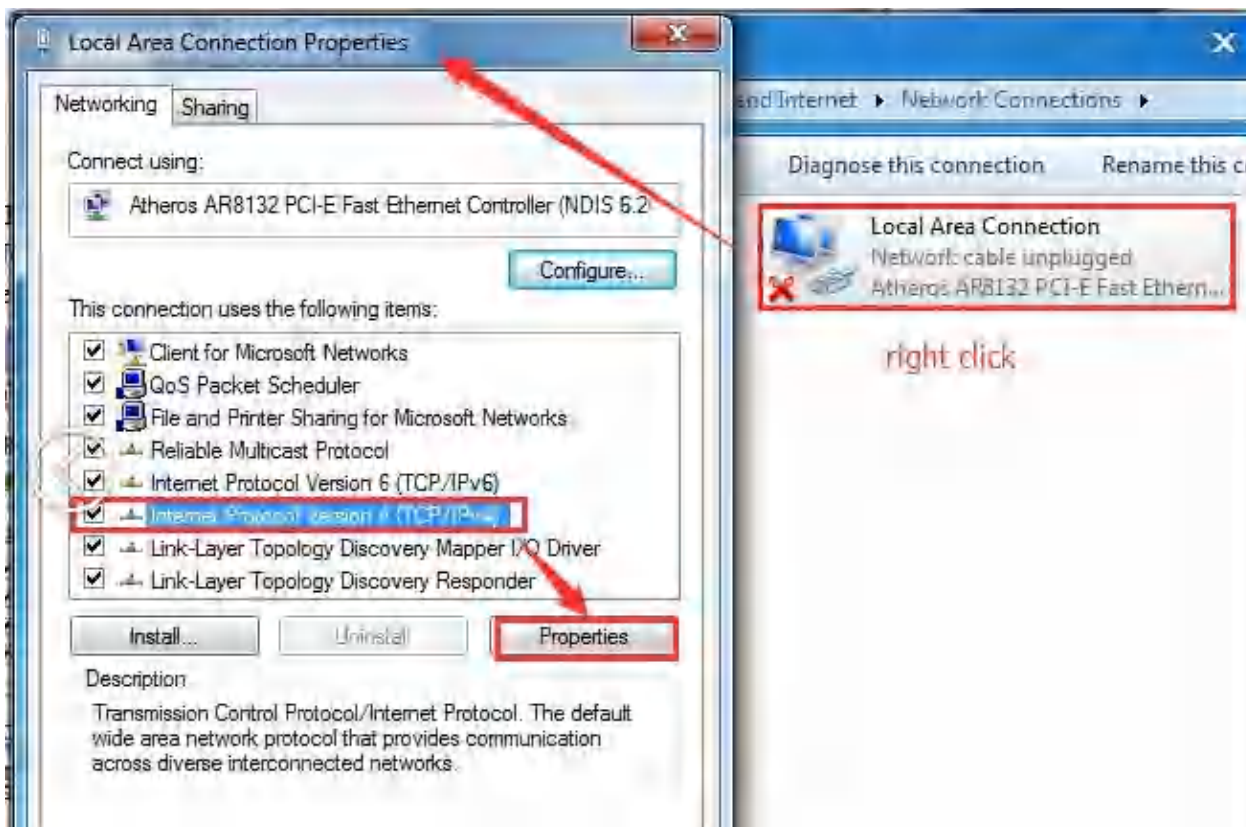


LAN---The connector for printer and computer
Host Power-----Please use 3x0.75mm²cable

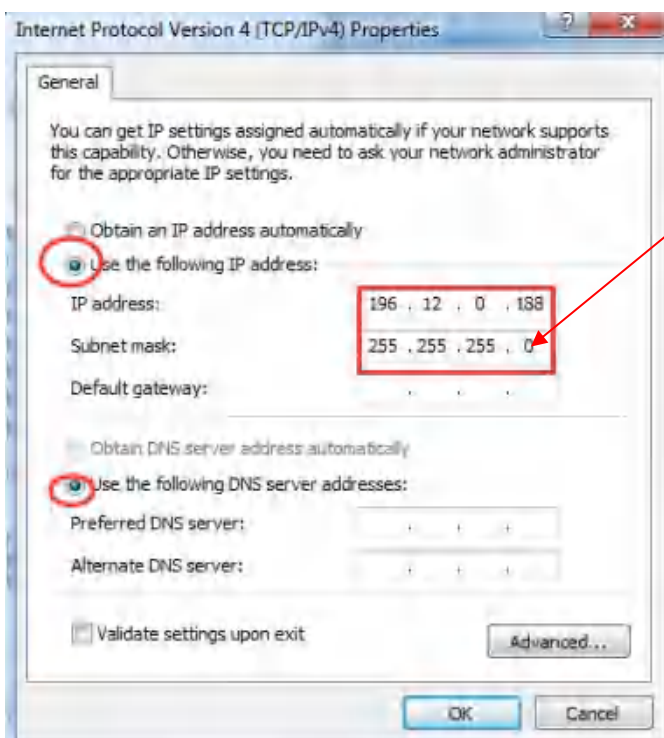
V: setting for PC

5.1 Net setting for PC

My network Places right click --> Property find vision as below



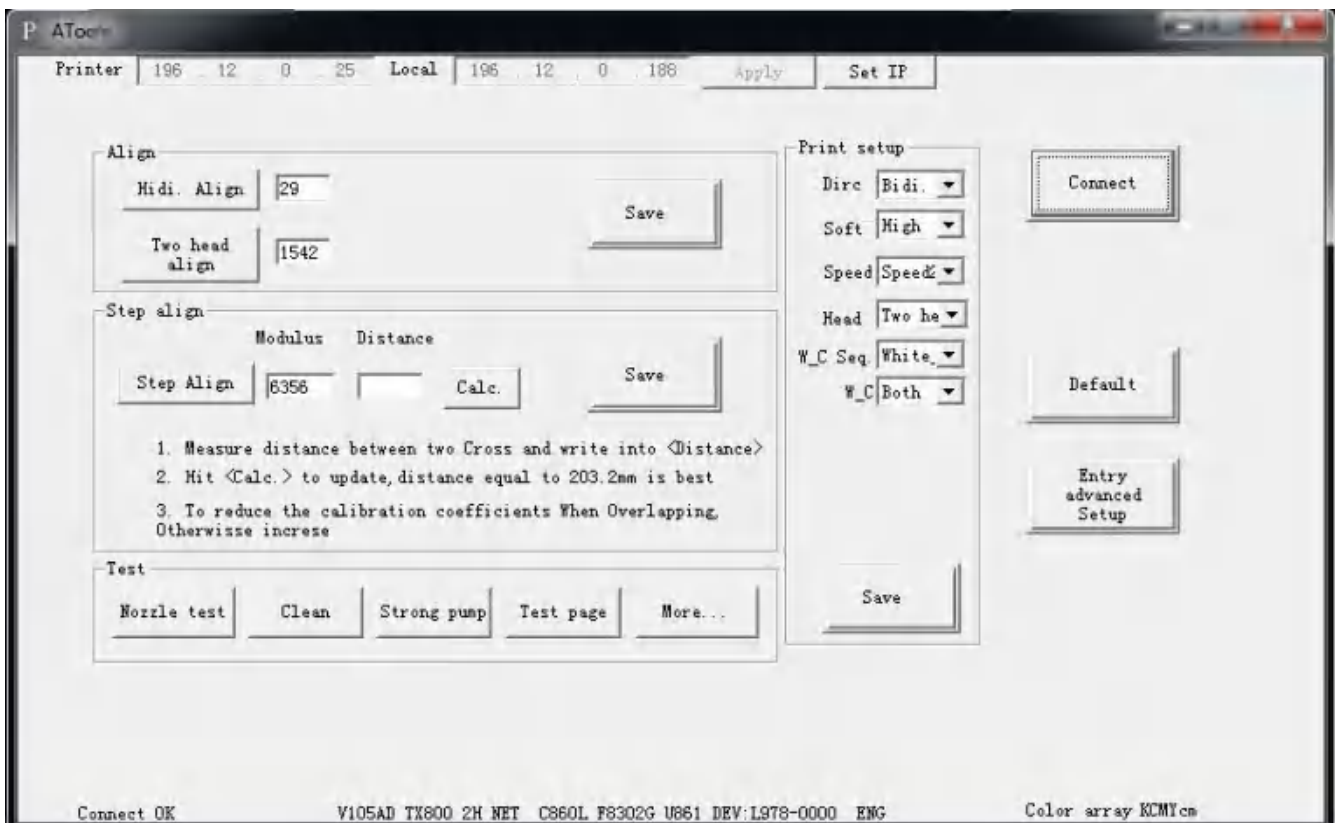
Find (TCP/IP) or (TCP/IPv4) Click and find vision below.



Use the IP as the picture Show
196.12.0.188
255.255.255.0

The interface after connect with computer:

When you open P ATools software right click , As administrator.

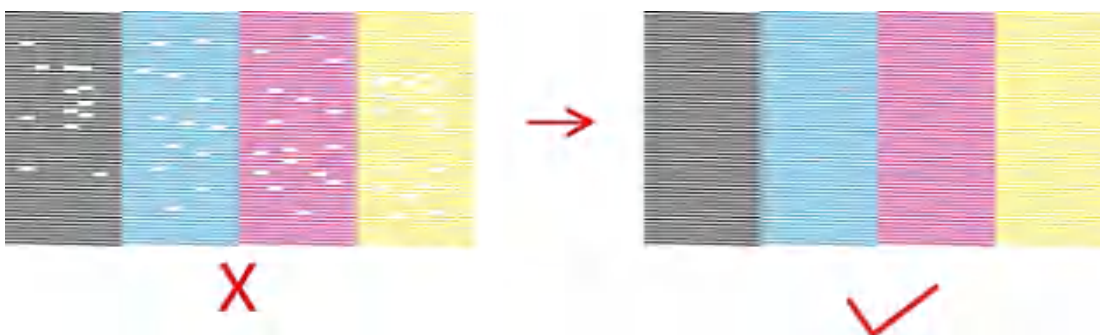


5.2 Set IP of aligning tool

Click button of “ set IP address”, input 16753 into the code box. Change the printer IP as: 196.12.0.25, and local IP as: 196.12.0.188. Local IP address is the default address of Board. If user defined IP address already been set in the control panel, accordingly change the local IP address as user defined IP address. Then click the button of “ apply”, plug in the network cable and connect the computer and board, click the button of “ connect”, then you can set the parameters and operate through aligning software.

First adjust the vertical adjustment of print head (physical adjustment of print head installation, click “more”at “maintenance”box.

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



5.3 Vertical adjustment

Vertical adjustment, adjust the physical level of the print head

Open aligning tool, click “more buttons” after get on-line, a interface will be popped up, click the button of “ vertical test” to print test patterns.

car | 196 | 12 | 0 | 25 | Local | 100 | 10 | 0 | 1000 | 1000

Align

Hide Align Save

Stop align

Modulus Distance

Step Align Calc. Save

Tune Calc.

1. Measure distance between two Cross and write into (Distance)
2. Hit <Calc> to update, distance equal to 406.4mm is best
3. To reduce the calibration coefficients When Overlapping, Otherwise increase

Test

Worls test Test page **More...** Save?

Print setup

Dirx Bidi. Soft High Speed High W.C Setup White C. W.C Seq. Auto

Connect

Head Align

Entry advanced Setup

Maintenance

Clean Head capped Wiper Strong pump Flush

????

Test

Vert. test

Import or export profile

Import profile Export profile

PC keypad

Print origin Home <Left> Right> Fed Back

Stop car Stop paper

Note: When positioning, to move the car to the right location

UV Lamp Control

Lamp R To L On -4500 Lamp Dis. 10000

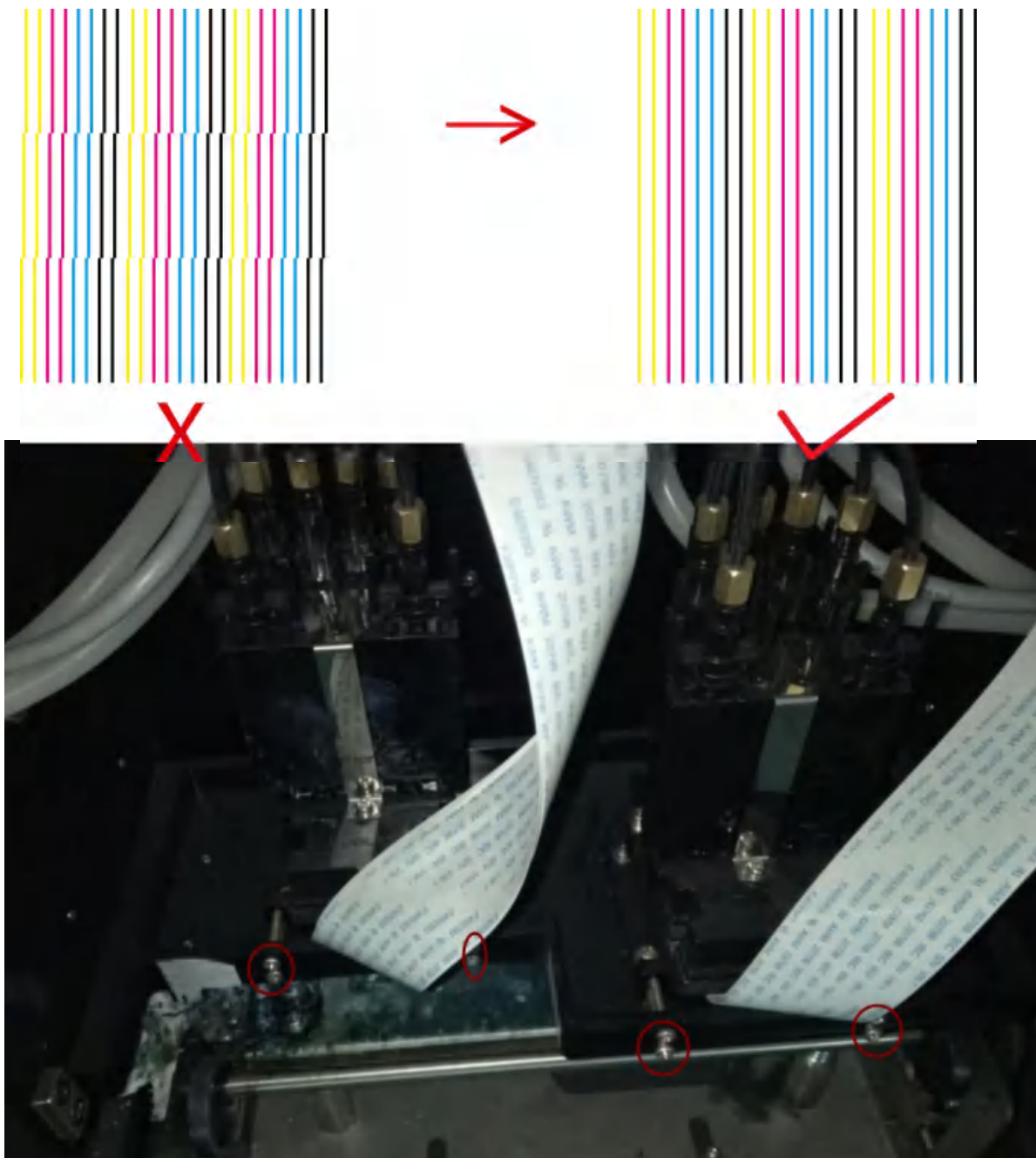
Lamp R To L OFF 100

Lamp L To R On 200 Load Lamp Para.

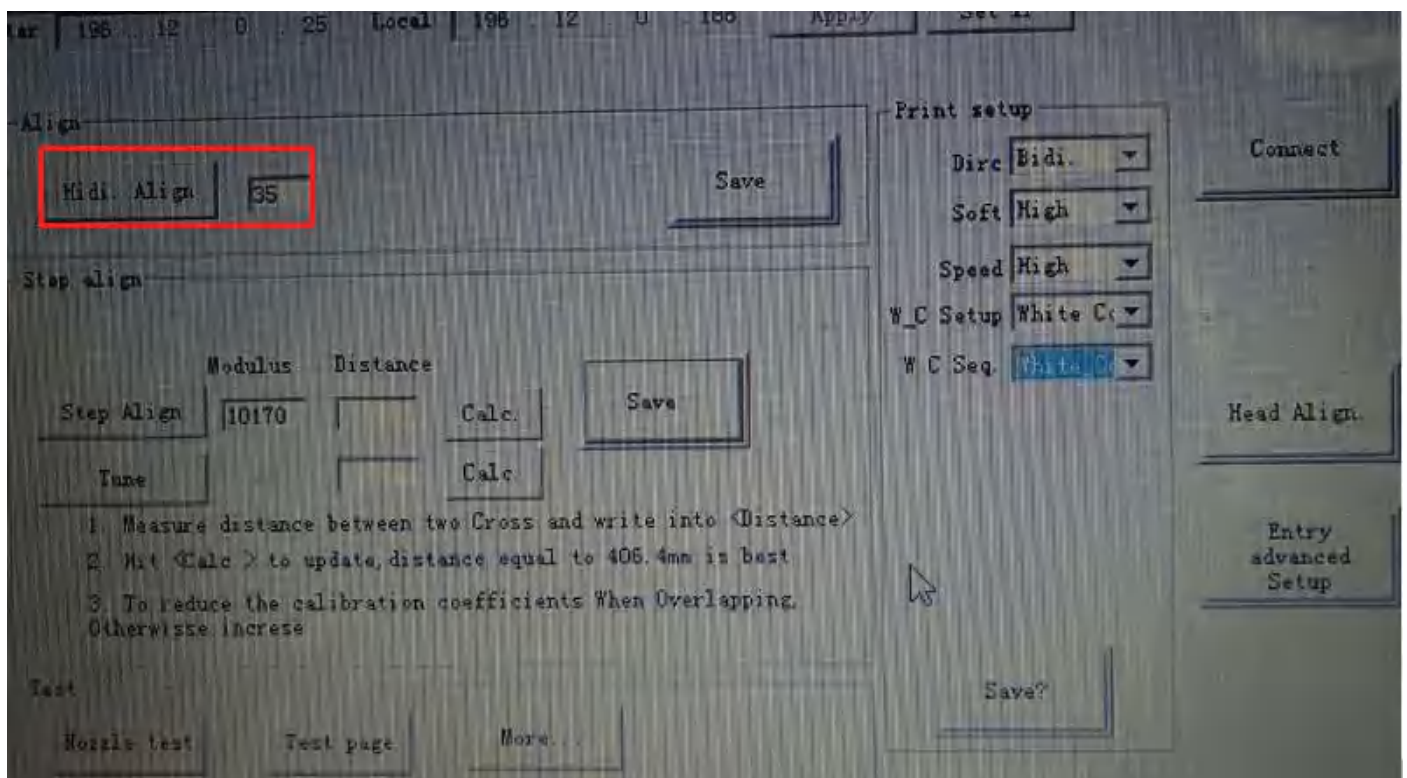
Lamp L To R OFF 0

Quit

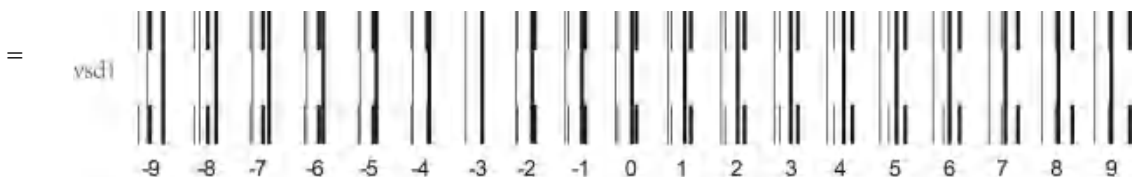
Adjust the physical location of print head according to the pattern printed, make sure the lines in last printed test pattern are vertical. As shown below:



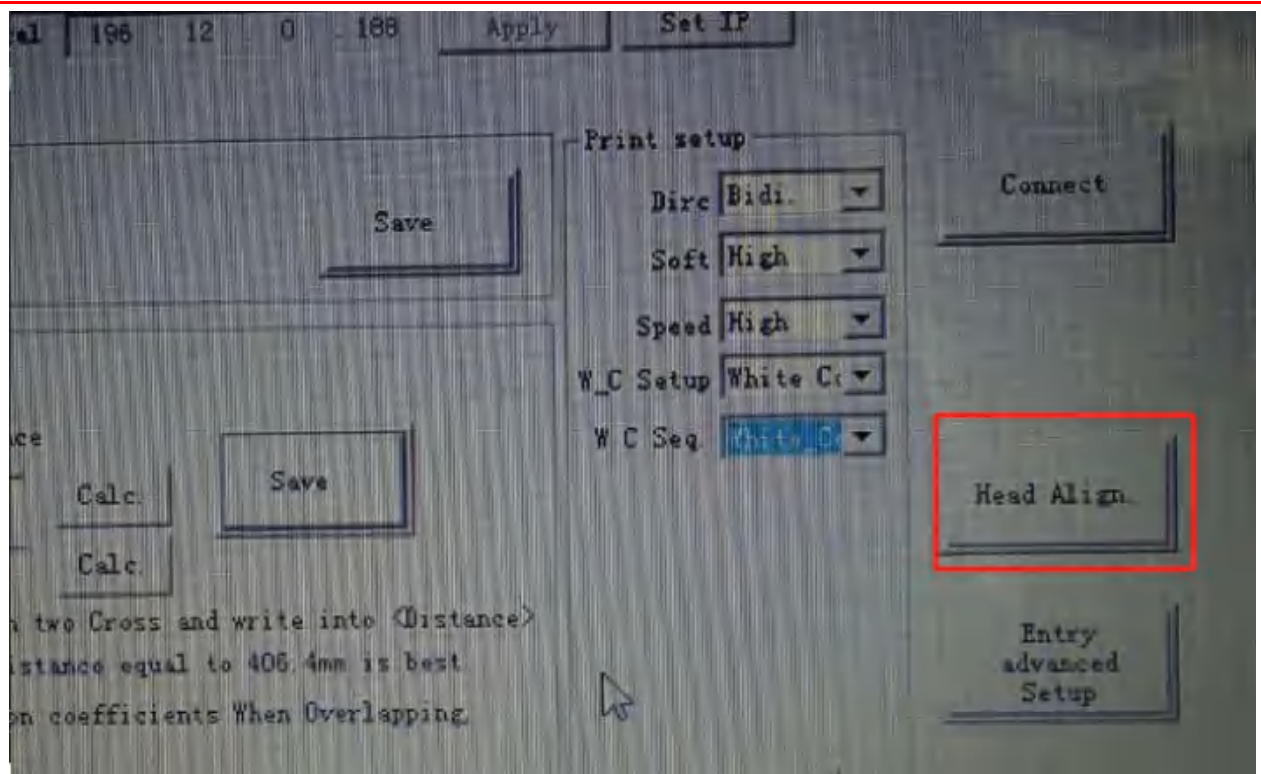
5.4 Bidirectional adjustment



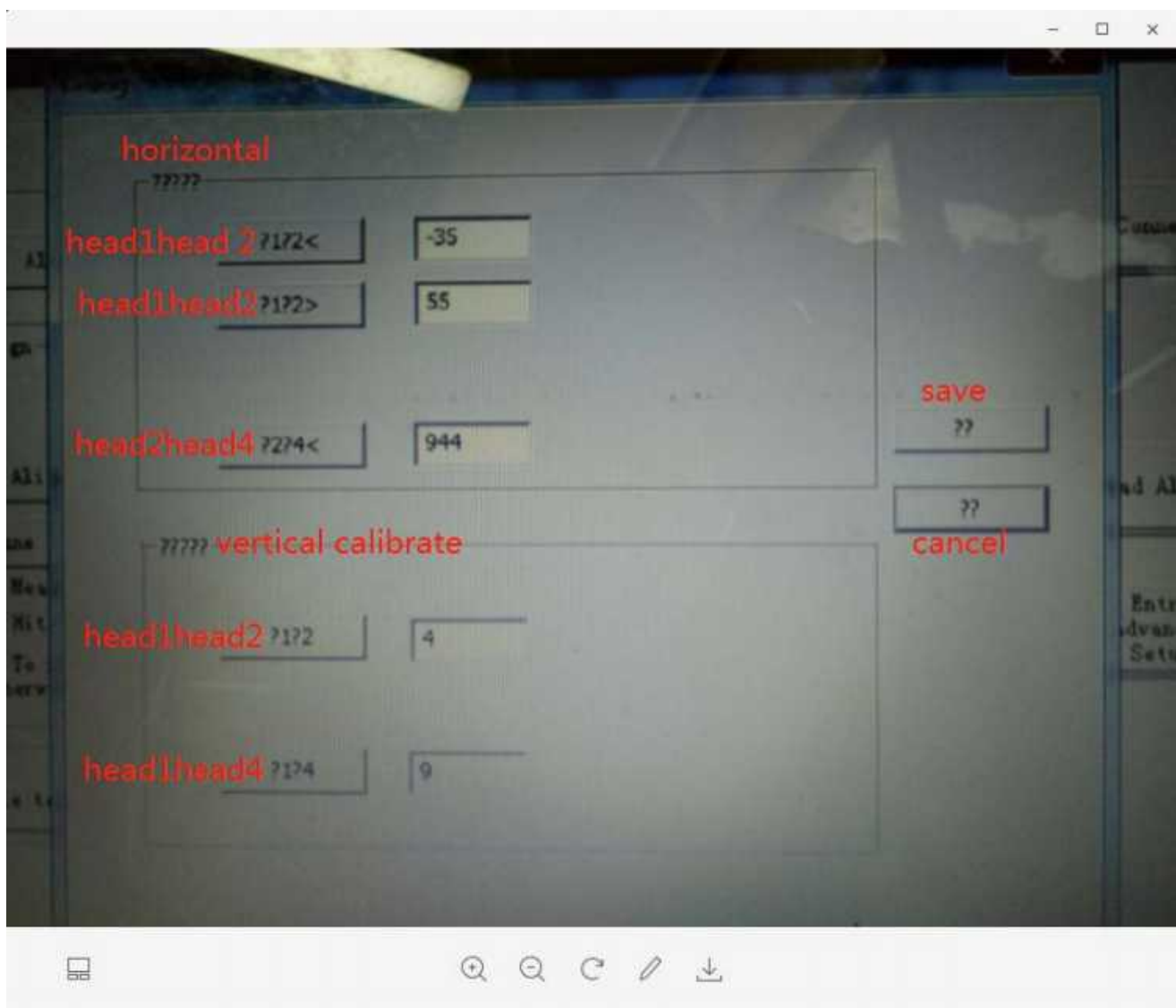
Click **Hidi.Align** button, print adjustment pattern:



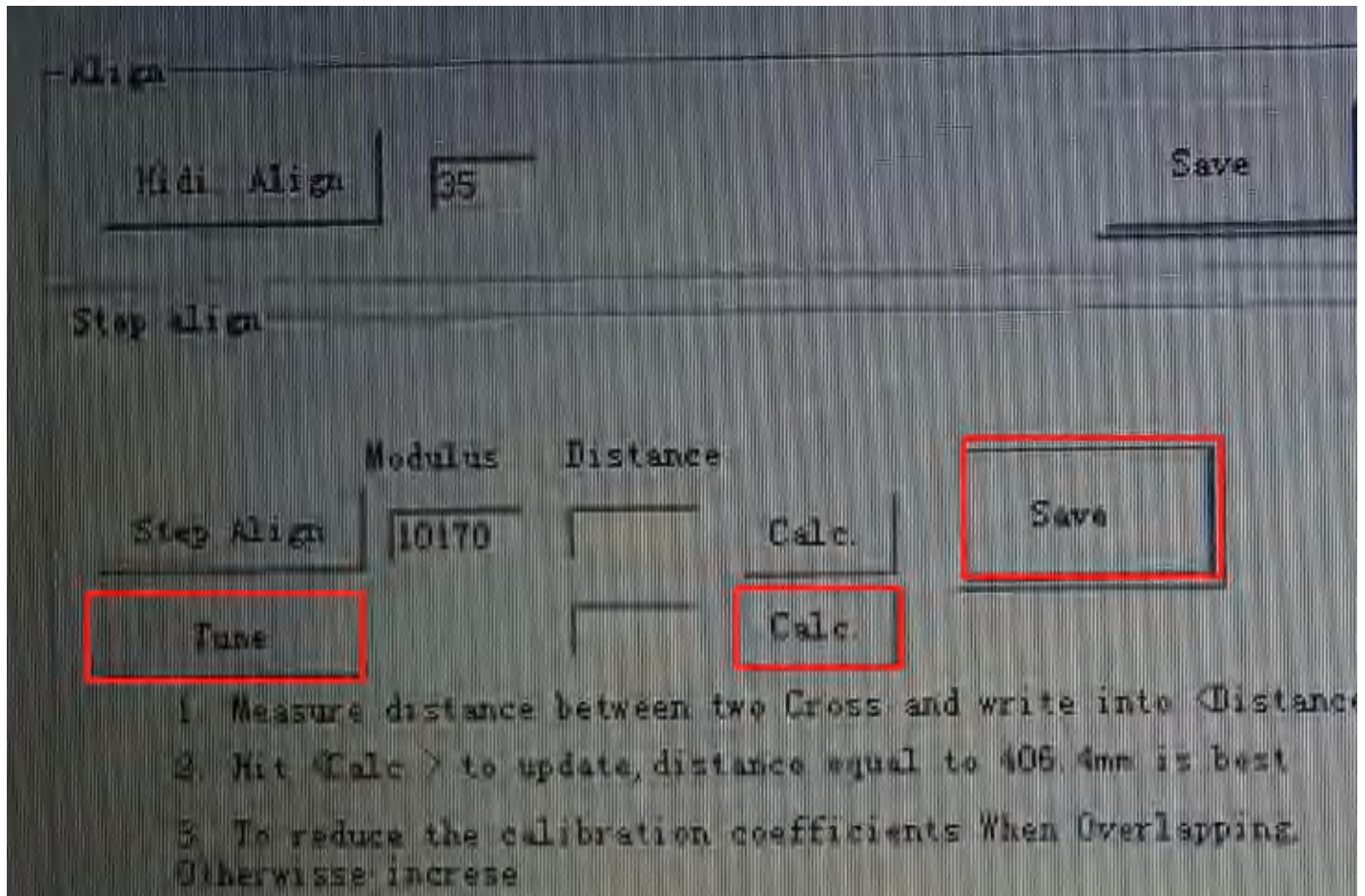
Observe the printed pattern, pick out the one where the fine line and heavy line overlap completely, add the corresponding number to number of bidirectional adjustment area, and input the result manually, then click the button of “save data”. For example the lines of -3 overlap completely, the result is $26+(-3)=23$, input 23 into bidirectional adjustment area then save the data.



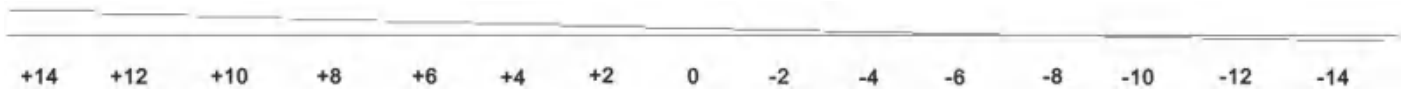
5.5



5.6 Paper step adjustment



Click the button of Tune, print the adjustment pattern:



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

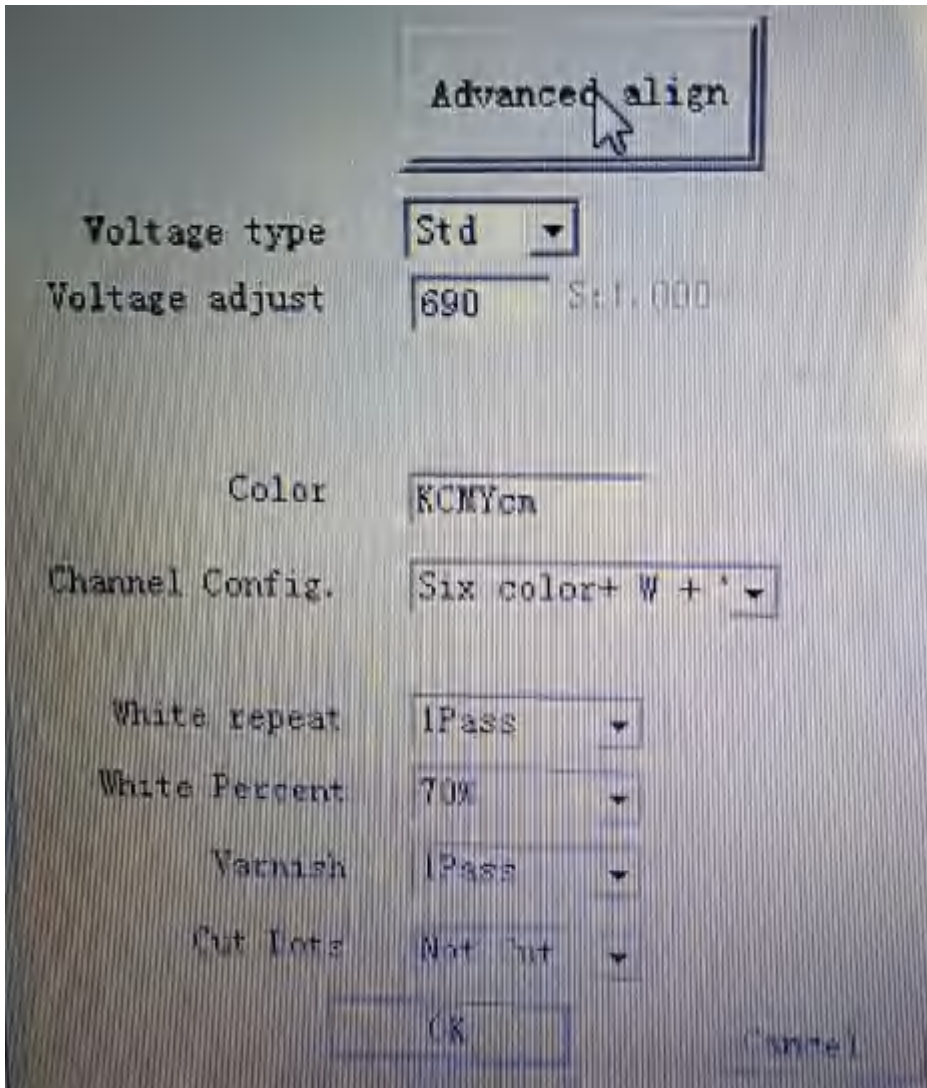


Good setting print



5.9 Entry Advanced setup

Click “entry advanced setup” button,
it will appear a password framework, pls input “16753”,then click “ok” and enter into advanced setting menu



- 1、 Voltage type: choose Std,it is corresponding to UV machine waveform automatically.
- 2、 Adjust voltage: it is for adjusting the voltage of print head,when ink come out not clear or ink spill,you can add up the voltage value; when print head miss line easily or the color is too deep,you can decrease the value. Parameter adjustment range is 600-680,the standard value is 650
3. Color: KCMYcm stands for 6 colors. this color order can adjust by yourself, nozzle test left to right order .
- 4.W:white V:Varnish
- 5.White repeat :1pass if you set 2pass ,the ICC used 6pass. the white print 12pass and color print

6pass. Normally used 1pass

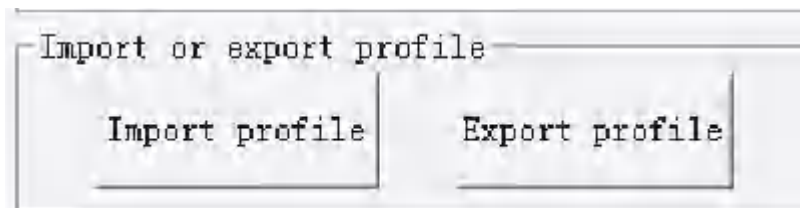
6.white percent : normally used 60%-80%. If you want print white ink more you can used 100%.

7.Varnish:1 pass. Same white repeat

8.Cut Dots:not CUT print varnish all , keep1/2 print varnish only half . keep1/4 print only quarter.

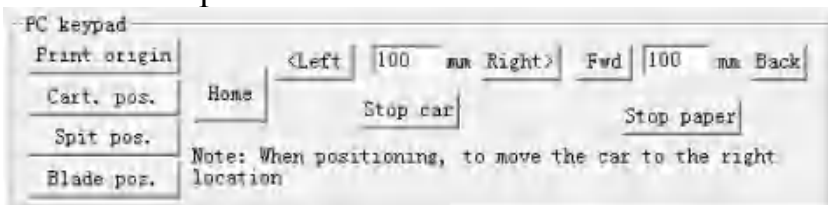
5.10 Adjusting the parameter import and export

Click maintenance area”more” button,it will appear maintenance menu which will show “import “ and “export” button.



After adjusted all the parameter ,please click”save setting file” button,please save all the adjusted parameter as flie on the computer. Later if you need to change the board of car,after changed,please click”more” and “import the file” button,you can import all the adjusted parameter before into your board,then it can save more time ,no need to adjust it again.

5.11 Control panel in software



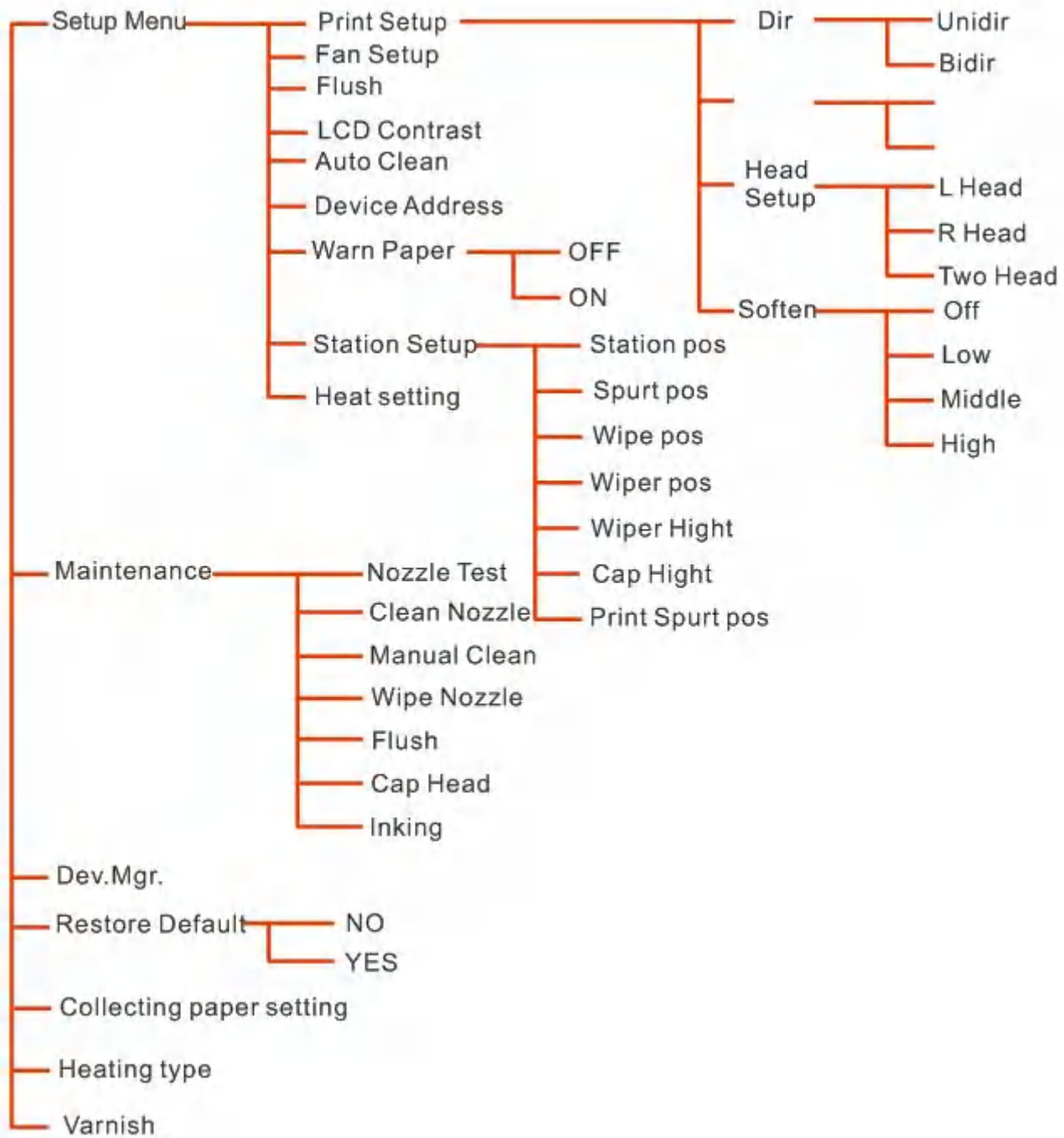
PC small keyboard-PC small keyboard can control the car ink stack setting accurately.

Congratulations to you! All the setting is finished,now you can print.

VII Panel menu

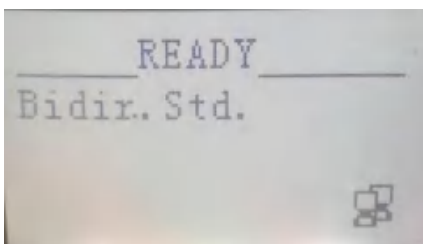
6.1 panel menu structure

When Machine is in standby mode,please press “ENTER” botton then come into panel menu



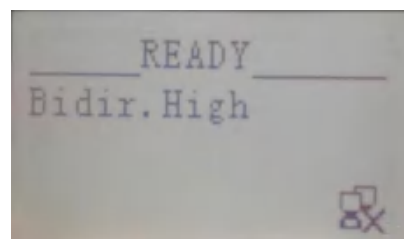
6.2 menu instruction

When turn on the machine,please make sure machine is online



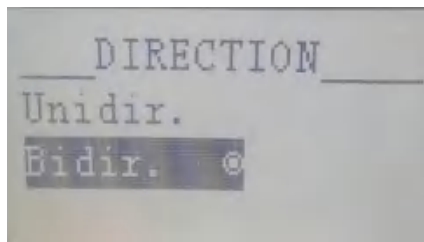
Click
"Enter"
-----Menu

When turn on the machine,please make sure machine is offline

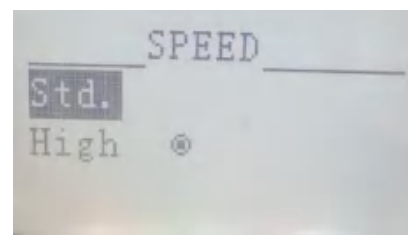


Setting menu - printing
setting-direction

Setting menu - printing
setting-speed

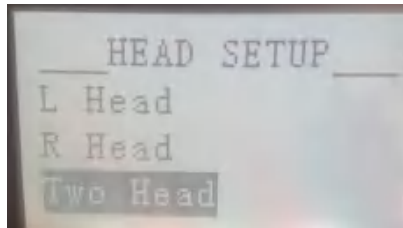


direction setting: when you print, please choose Bi-direction or single direction



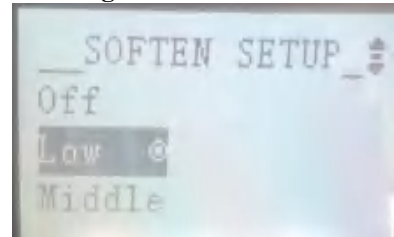
Speed setting: when you print, please choose standard speed or high speed

Setting menu - printing setting-nozzle



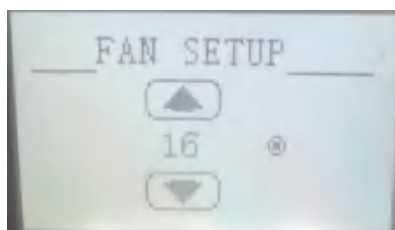
nozzle setting: when you print, please choose nozzle style.

Setting menu - printing setting-Soften



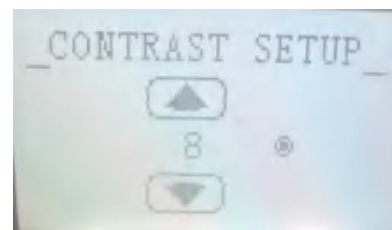
soften setting is main to make up the pass trace when printing, make the picture better.

Setting menu -fan setup



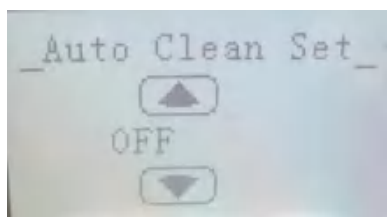
control intensity of the suction fun

Setting menu -contrast



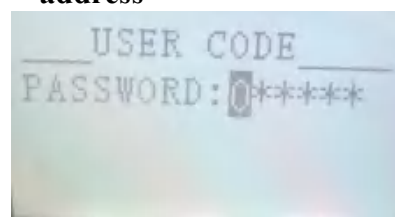
mainly show the word intensity on Liquid crystal display

Setting Menu-----Automatic cleaning



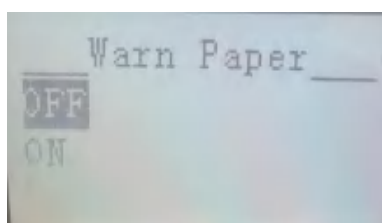
when you are printing, pls set the time of cleaning is 0.5H, 1H, 3H, 8H

setting menu-machine address



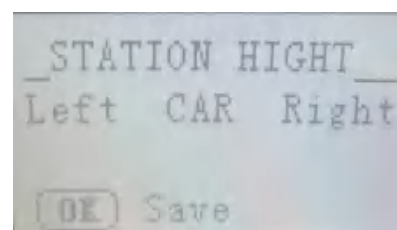
machine address is only available for engineer

setting menu-no paper alarm



the original setting is "turn off", if it is on, machine will default there is no paper, machine will pause to print

setting menu- ink stack setting-ink stack origin



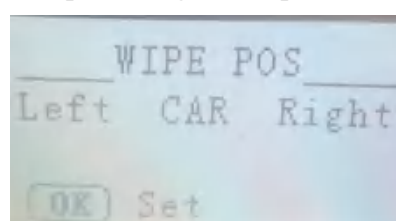
pls press the left and right button to move the car, in order to arrive at ink stack origin (nozzle kiss Ink absorption mouth accurately to keep wet

Menu setting-- ink stack setup-flush position



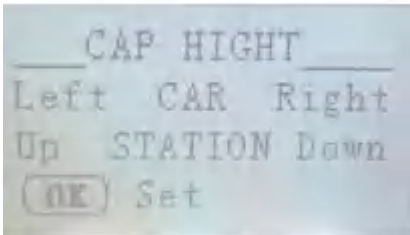
to set the position when printing with flush mode

Menu setting-- ink stack setup-Blowing mouth position



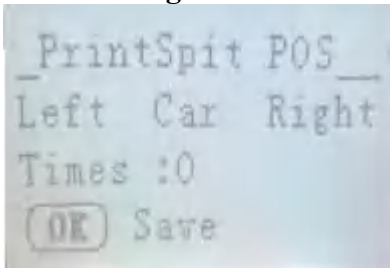
Press the left and right button to set the distance of scraping

Menu setting-- ink stack setup-cap hight



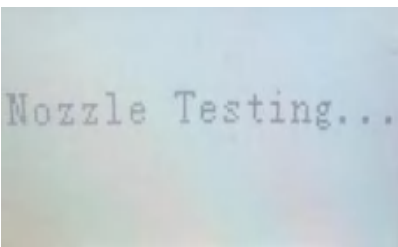
press the left and right button to move the car,in order to kiss the Ink absorption mouth accurately, press the up and down button to adjust the height of Ink absorption mouth .

Menu setting-- ink stack setup-print spit POS



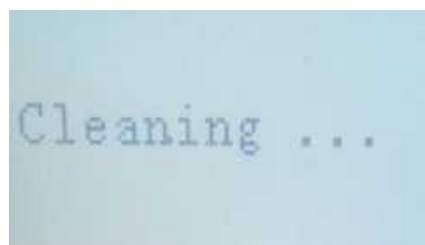
press the left and right button to move the car,in order to kiss the Ink absorption mouth accurately,press the up and down button to adjust the height of Ink absorption mouth

Menu setting- Equipment maintenance- Nozzle testing



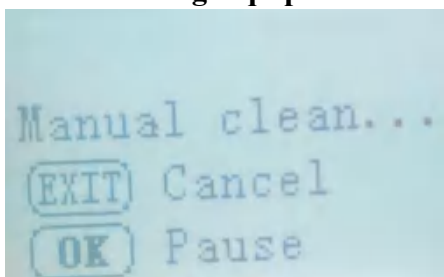
Nozzle testing is to check whether the nozzle hole is blocked

Menu setting-Equipment maintenance-clean automatically



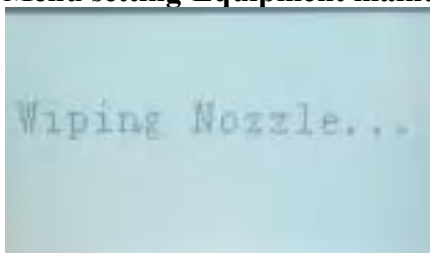
When the nozzle can not jet ink well,it will clean automatically,then it is good for jeting the ink

Menu setting-Equipment maintenance-cleaning by manual



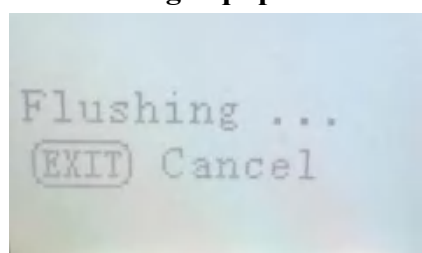
When the nozzle can not jet ink well,will clean by hands,then it is good for jeting the ink

Menu setting-Equipment maintenance-Wiping Nozzle



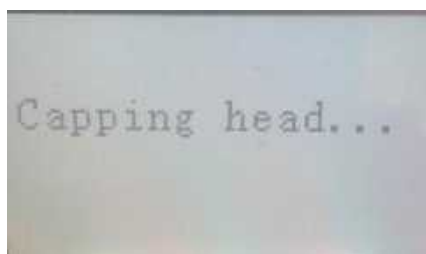
When head surface has barrier or residual ink,pls use wiping nozzle to keep the head clean

Menu setting-Equipment maintenance-flush ink



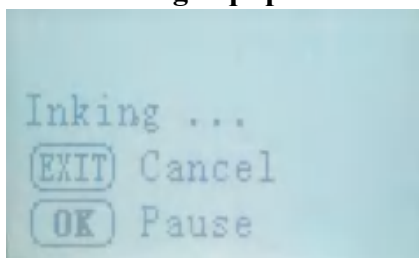
Ink flushing is to flush the head

Menu setting-Equipment maintenance-capping head



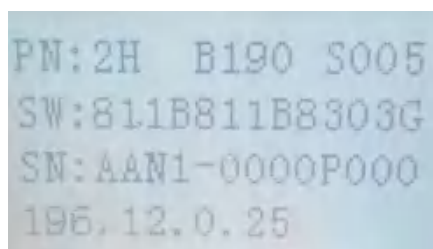
Ink absorption mouth will rise up,it will seal the head and keep it well

Menu setting-Equipment maintenance-Inking



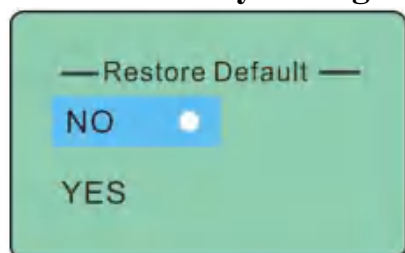
Extract the ink for head using

Printer Information



Board and Program Information

Restore factory setting



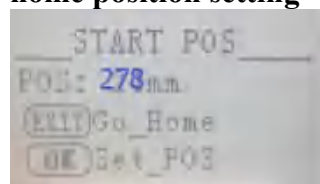
Restore factory setting?

NO/YES

Technicians use the project, Please don't change

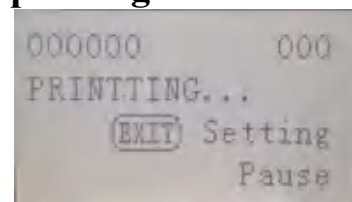
6.3 Printing instruction

home position setting



Print the button to Lift or Right the Carriage; set the home position.

printing



000000—Already printing length

000.0—The length of picture on printing

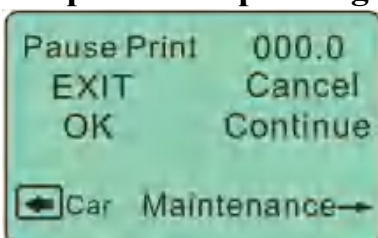
Setting in printing process



Click up & down to make step setting

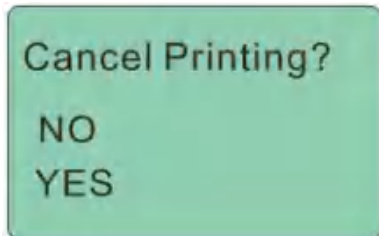
Click lift & right to make Bidirection setting

Suspension in printing



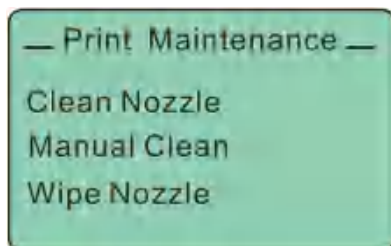
Information show when suspension

Cancel printing



To make choose by click the up & down button

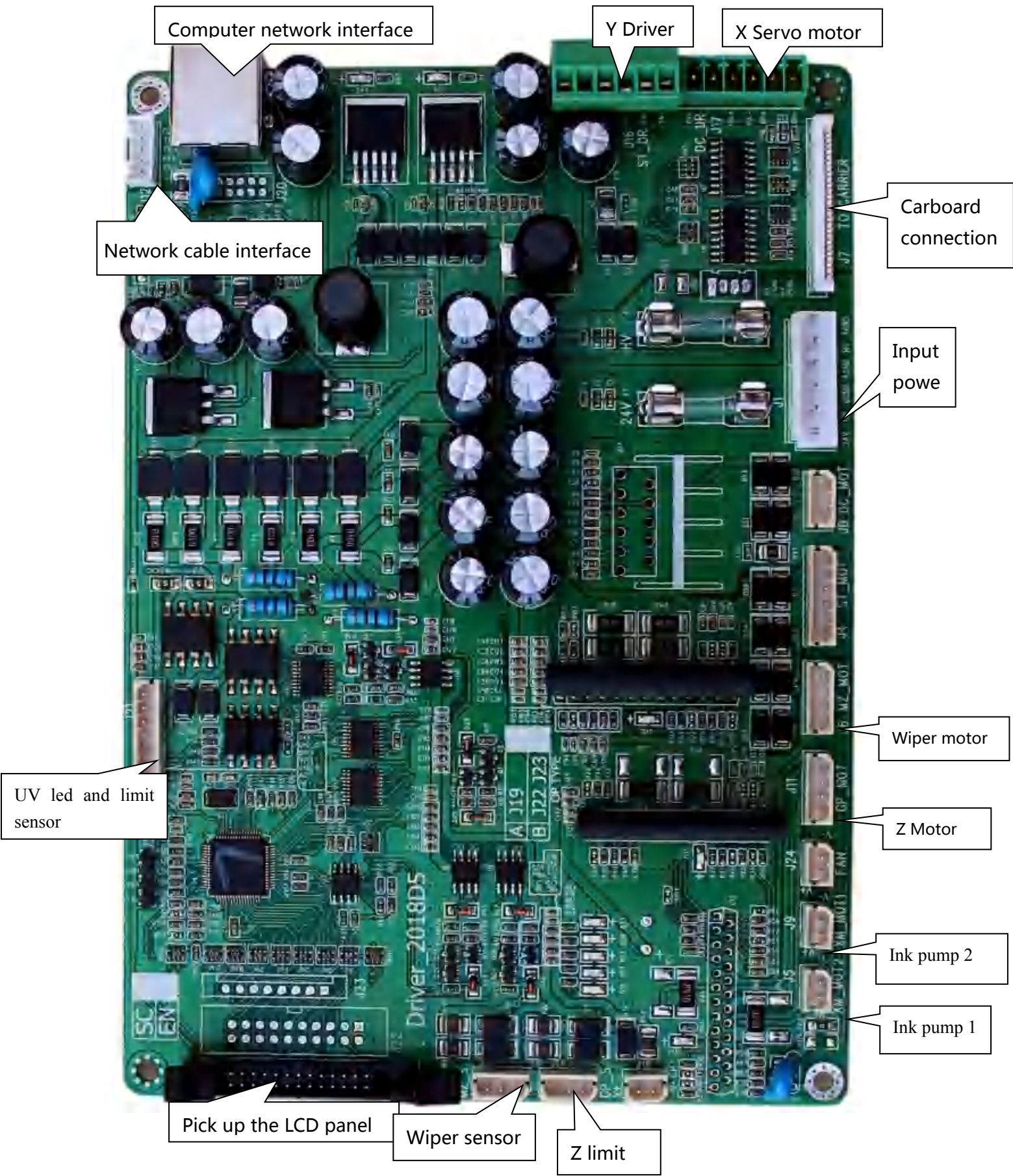
Print Maintenance



Information show of if need maintenance
when suspension on printing.

VII、 Mainboard and carboard interface Introductions :

7.1 Mainboard

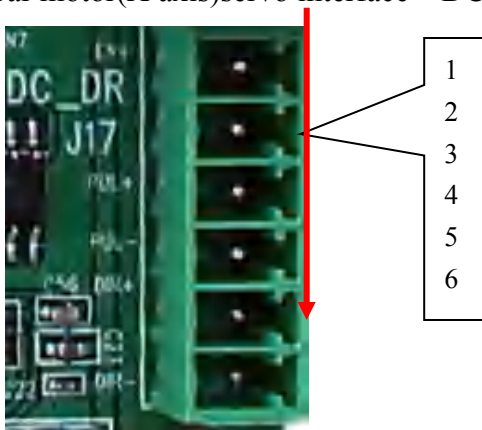


1) Paper step motor(Y axis) servo interface ST_DR



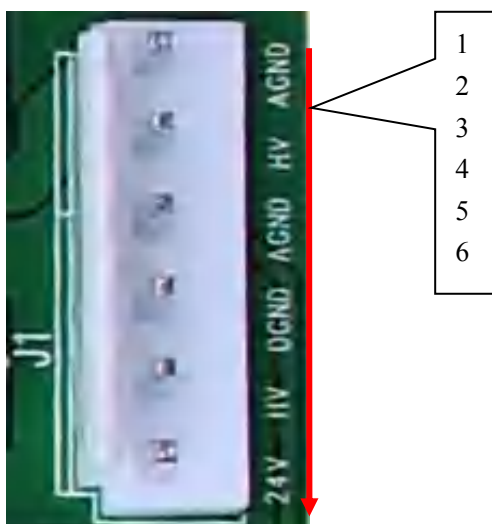
Pin number	1	2	3	4	5	6
server	PUL+	PUL—	DIR+	DIR—	No connection	No connection

2) Car motor(X axis)servo interface DC_DR



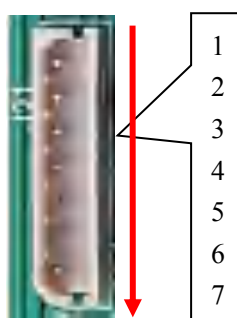
Pin number	1	2	3	4	5	6
server	No connection	No connection	PUL+	PUL—	DIR+	DIR—

3) Power interface J1



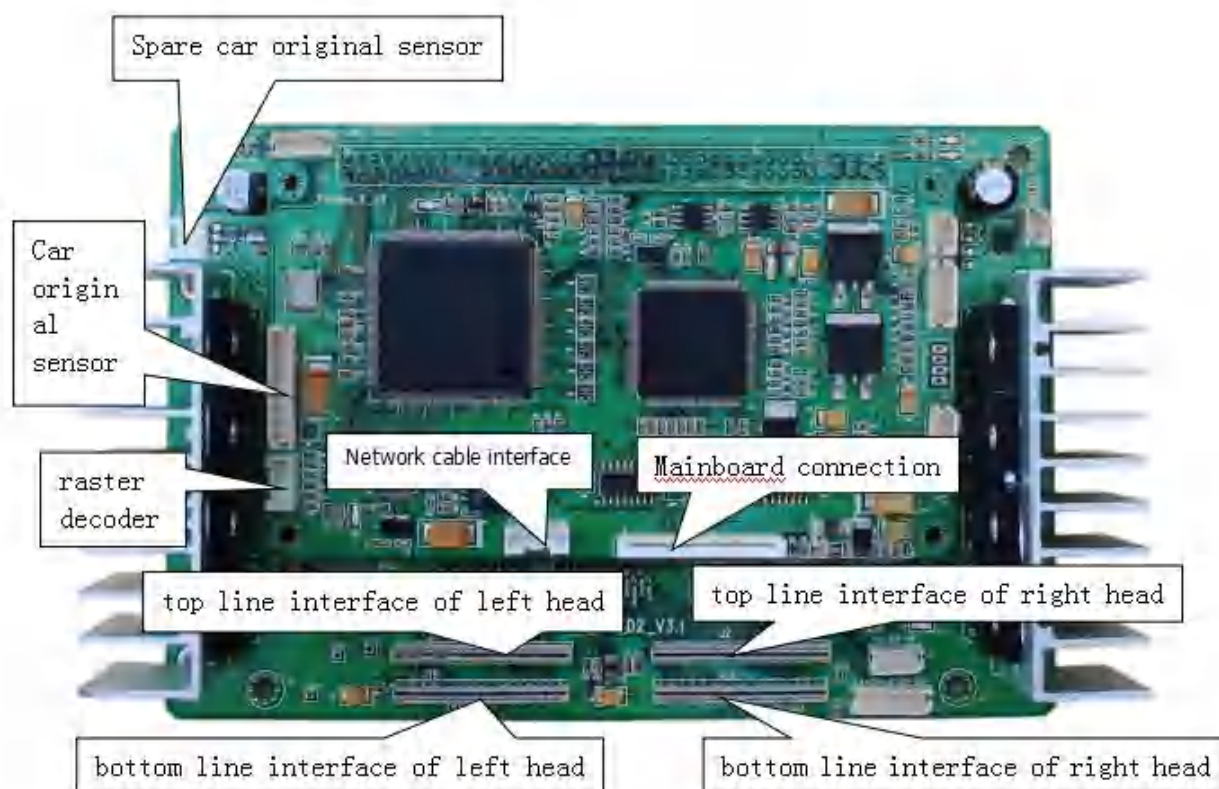
Pin number	1	2	3	4	5	6
Power interface	42VGN D	+42V	42VGN D	24V GND	+42V	+24V

4)UV Led and limit sensor

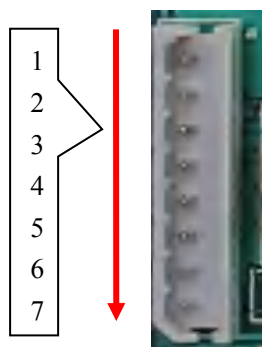


Pin number	1	2	3	4	5	6	7
Pin definition	+24V	GND	Reserved interface(UV)	UV lamp	GND	Front sensor	Behind sensor

7.2 Car board (PRINTER)

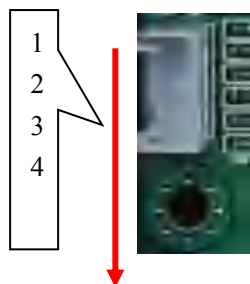


1) Car original sensor interface



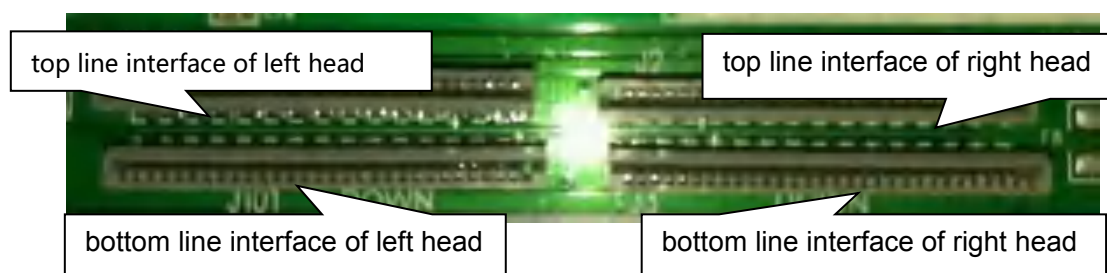
Pin number	1	2	3	4	5	6	7	8
Sensor	No connection	GN D	No connection	No connection	sensor signal	No connection	No connection	3.3V sensors Anode

2) Raster decoder interface



Pin number	1	2	3	4
Pin definition	GND	+5V	CHA	CHB

3) Printhead Pinboard



Printhead cable can not opposite up and down , or will damage the printhead

VIII、 Notice:

1. In order to improve the printing stable and long time working ,please equipped the machine with stabilizer and other related voltage control equipment .

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2. please check whether the ground wire, power and others is good before turn on the printer
 3. Operator must check the printhead height, whether clean the printhead, whether the UV lamp is on
 4. Please check the printing and printing media size, must same
 5. If the carriage strike others, must click pause key or Emergency stop key
 6. When replace the UV lamp, Ensure the power is turned off, Until the lamp tube is cold, then change it. Don't touch the lamp tube, or will effect the luminous efficiency, so Must wear clean gloves to tear open outfit
 7. Restart immediately after uv lamp is off, it is normal phenomenon that the UV lamp is not light, after uv lamp cooling can be light again
 8. it must immediately stop using when the water chiller can not work well, To avoid damaging UV lamp.
 9. To prevent premature aging UV lamp, can not cut down power when turn off UV printer, must wait the UV machine automatic shutdown then shutdown the power
 10. When the machine have big problem, please contact with us or your local agent, can not maintain it by yourself
 11. Can not clean capping using water, thus will damage the printhead indirectly
 12. water chiller use Cryogenic fluid or purified water, can not use others