
ALLWIN 1.8m hybrid User Manual

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Chapter 1 Prepare of installation

1.1 AC Power requirement of machine

- A. Machine need 2 separately AC power, one for machine main power system, another for LED UV lamp system.

Machine main power: Single-phase electricity 220V AC 2KW/ 10A

LED UV lamp power: Single-phase electricity 220V AC 2KW/10A

Tips: AC electricity need good PE which resistance less than 50 ohm

- B. Machine AC power cables requirement, each wires in the cables at least 6mm² diameter. This avoid AC power cables get hotting when machine running.

- C. AC 220V 15KVA automatic voltage stabilizer needed for machine main power. This can help machine running not influence by power current fluctuation.



1.2 Min Computer configuration

CPU: Intel i5 8500 or AMD R5 2600

Memory: 16 GB

Video Card: 2GB GPU Memory card

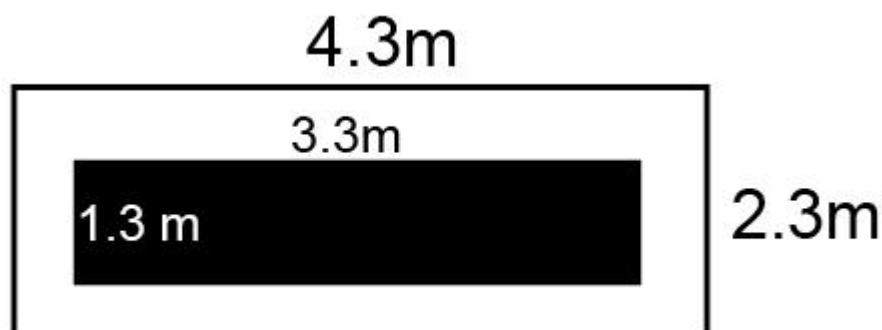
Storage: SSD 256GB+ 1TB HDD

Operating system: WIN10 64Bit / WIN7 64Bit

1.3 Environment Requirement

1.8m hybrid machine dimension: 3.33m*1.32m*1.42m

Min Room Space: 4.3m* 2.3m* 2.3m



Room temperature: 18 to 35 degrees

Room humidity: 35% to 65%

Machine need: dust free, without direct sunlight, not near air conditioner vents or heating source

1.4 Machine Operator requirement

Machine operator must familiar use computer, some knowledge of image design software, such as: Adob Photoshop, Adob Illustrator, CorelDraw.etc.



Operator must carefully use machine and responsibility for machine maintenance

1.5 Inks and Spare parts notice

Machine must use ALLWIN official UV inks and Spare parts, these can ensure machine print quality and print head lifetime.

For machine repair or unknowing issues, please contact ALLWIN local distributor engineer or send email to ALLWIN factory.

Chapter 2 Hardware installation

2.1 Unload & Open machine non-fumigation wooden box

A. Please check the machine non-fumigation wooden box broken or not before open it. If meet cargo damaged issue please contact your local forwarder person, they will help deal it and apply insurance compensation.

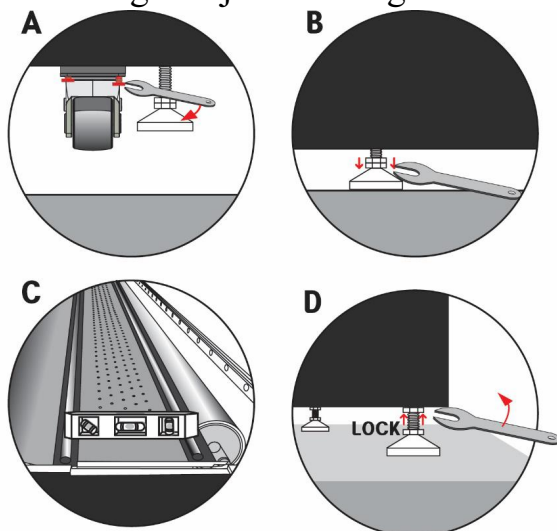
B. Please use professional device to unload and open wooden box. Suggest use 3 Tons forklift with 1.82m lifter arm. Mind the wooden box marked Front and Back



C. Please land the wooden box then open it

D. Use forklift land the machine on floor, then machine can move by Omni-directional wheels when pushing it.

Notice: 1. Before you move machine with the machine wheels, make sure all machine height adjustment legs not touch floor.



2. If hard to move by Omni-directional wheels, try move to different directions to make the wheels get same directions then easy to move

2.2 Machine put to right place and leveling

Move machine to right place, adjust machine leveling with professional device, such as: spirit level, Laser horizontal instrument.etc



Notice: Please ensure the leveling again after 8 hours. (This will help ensure machine body 100% well leveling)

2.3 AC power connection

AC power cables which already with machine, Please ensure right connect order of the connector: L: RED N: Blue PE: Yellow& Green



L-N:AC220V~250V N-PE:0V L-PE:AC220V~250V
M-

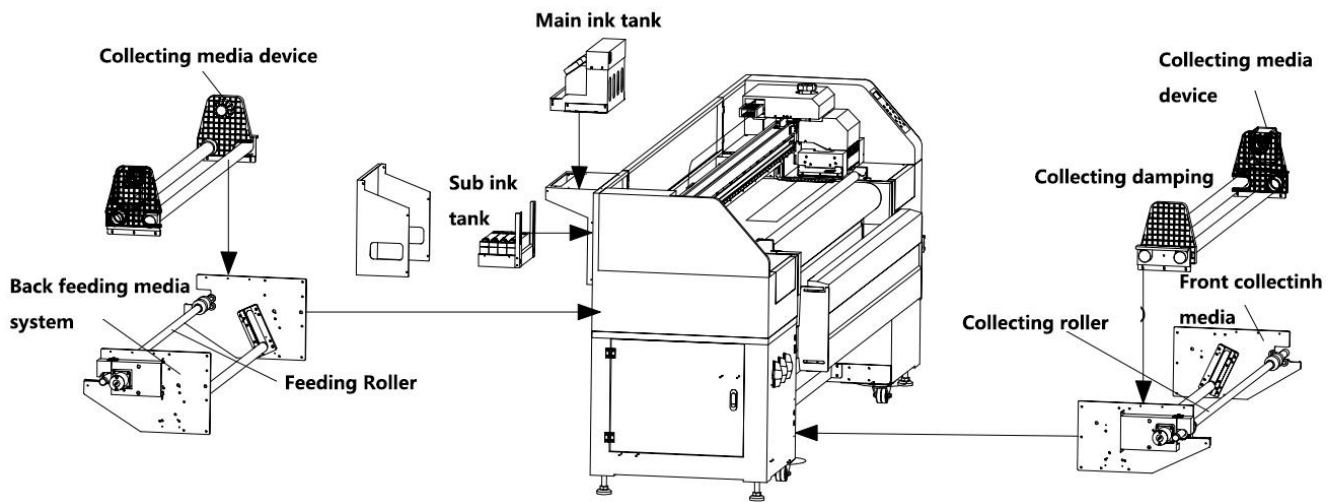
L with N: 220V AC, L with PE: 220V AC, N with PE: 0V-5V AC
(Ensure your PE/ earth wire working good)



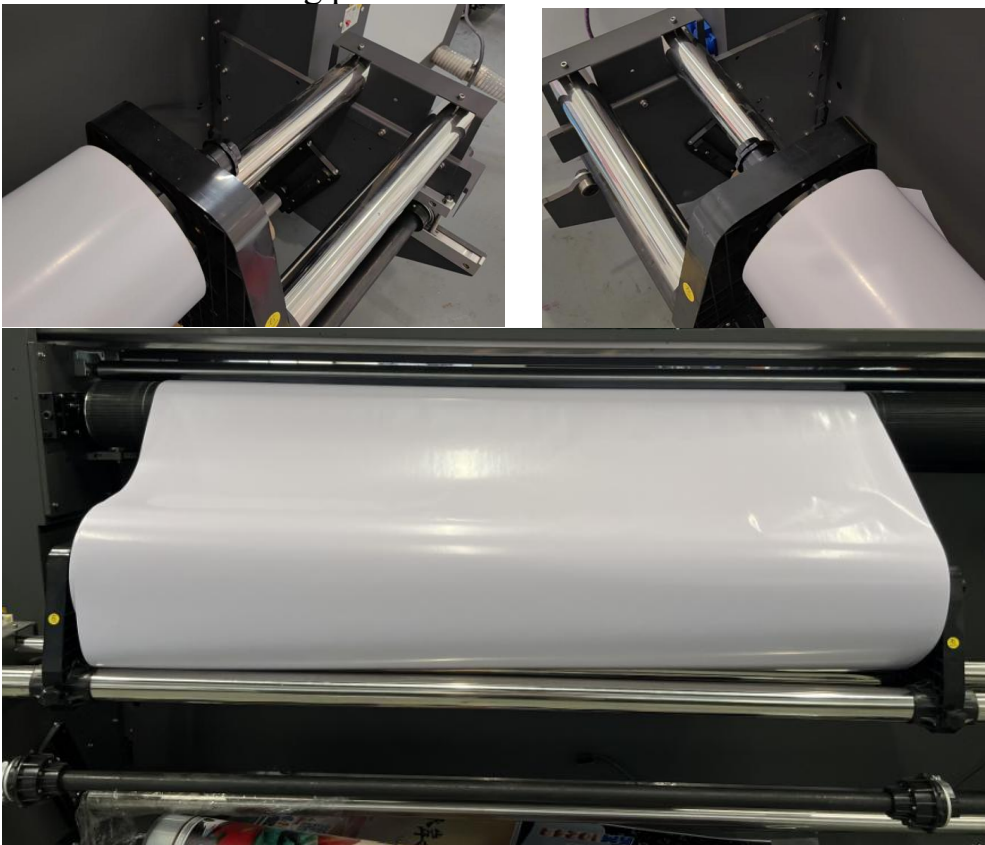
Warning: Please use Muli-meter ensure AC 220V connecting right order after you contact it to local factory. Wrong order will damaged the machine

2.4 Install Machine parts

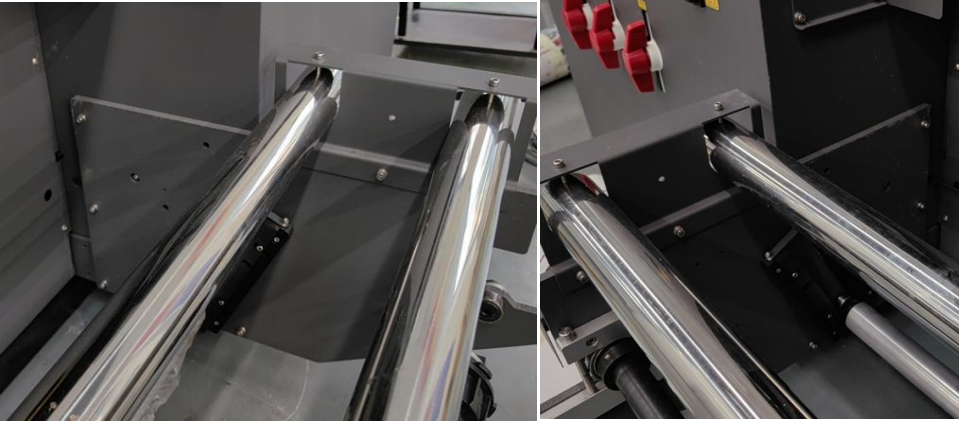
part1: install machine main parts



Part2: install feeding parts



Part3: install collecting media parts



Part3: install LED lamp and chiller system



(It is recommended to mix 30-40% antifreeze with 60-70% purified water and pour it into the water tank).

Connect the water pipes in place according to the line markings.

Water outlet: UV lamp cooling water pipe outlet,

Water inlet: UV lamp cooling water pipe inlet,

External Dimming: Connect an external dimming light

UV Lamp: Connect the UV lamps to the left and right lamps respectively

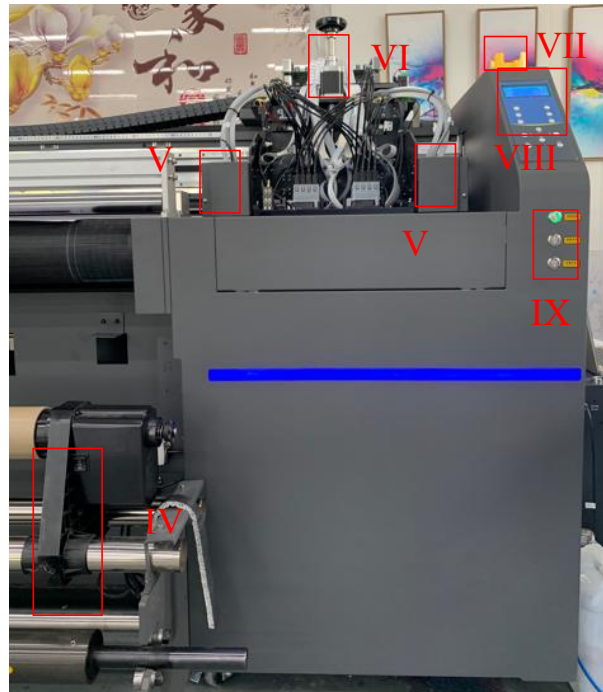
Varnish dimming: suitable for bright varnish

Dimming: As with ordinary lamps, adjust the appropriate power to dry the varnish

UV lamp adjustment : default set 70% , Adjust the power of UV lamp according to the actual situation.

2.5 Machine Main parts annotations

Side 1: machine Front side



I. Table Vacuum pump

II. Table vacuum area

III. Media collecting control button

IV. Machine collecting media parts

V. LED lamp

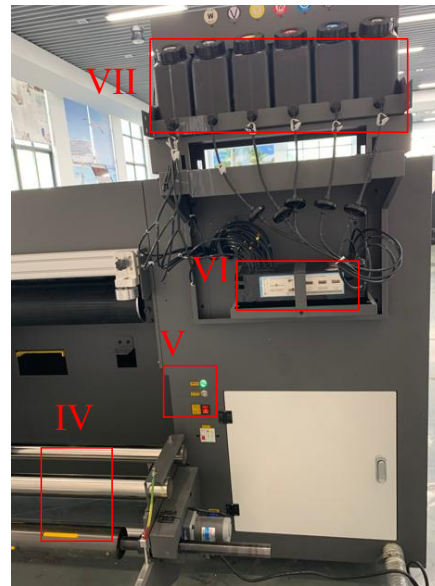
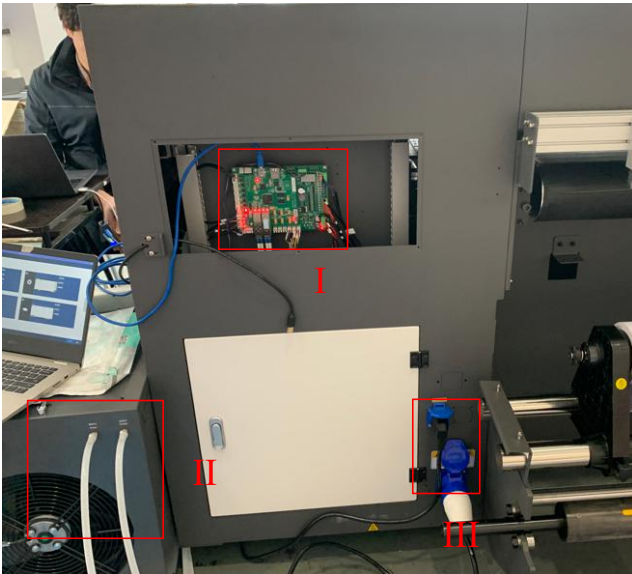
VI. Z movement step motor

VII. Emergency stop button

VIII. Machine control panel

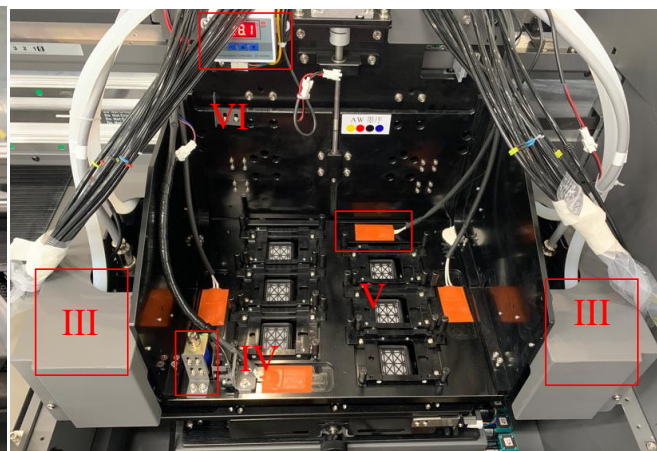
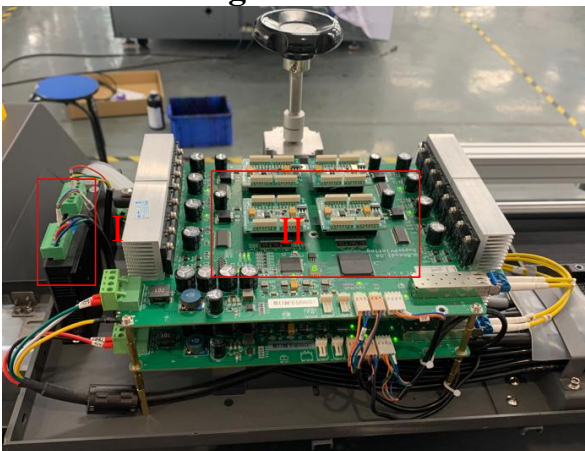
IX. Start machine button, table vacuum button, LED lighting button

Side 2: Machine backside



- I. Main board
- II. LED lamp chiller
- III. 220V AC input
- IV. Machine feeding media system
- V. Table vacuum button, feeding media controller
- VI. Sub ink tank
- VII. Main ink tank

Side 3: Carriage side



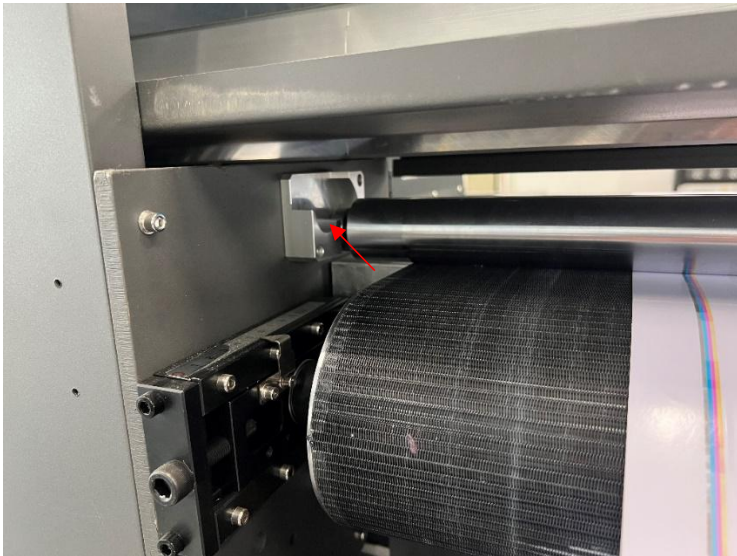
- I. Z step driver
- II. Carriage board
- III. LED lamp
- IV. Z height detection sensor
- V. Head plate heating bar
- VI. Head plate heating controller

2.5 How to take down the media

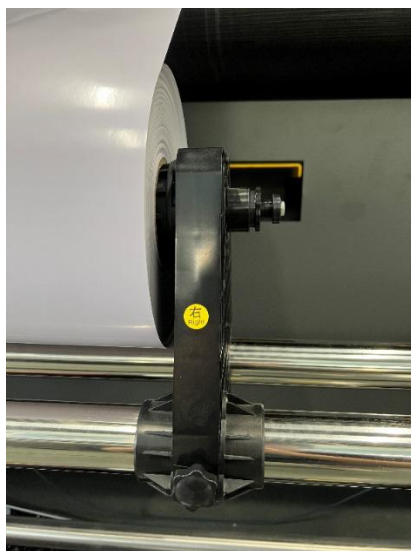
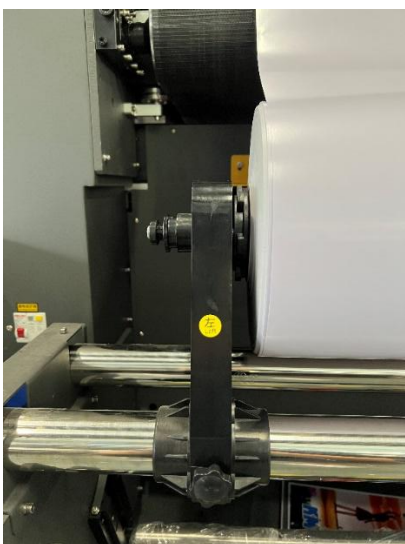
- (1) cut the media

(2) turn off the vacuum motor

(3) lift the lever



(4) Remove the feeding system



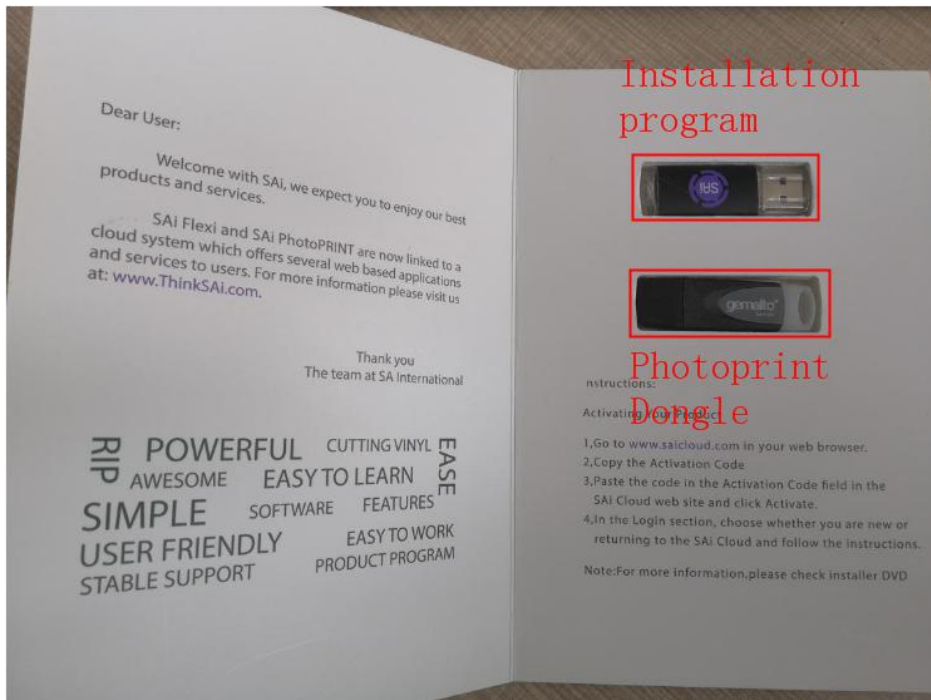
(5) Remove the media

Chapter 3 Software install

3.1 Photoprint RIP software

Sai Photoprint software used to process designed images to PRT format file, which will load by printing software. Sai Photoprint support file format: PDF (recommend), JPEG, PNG, EPS, BMP.etc





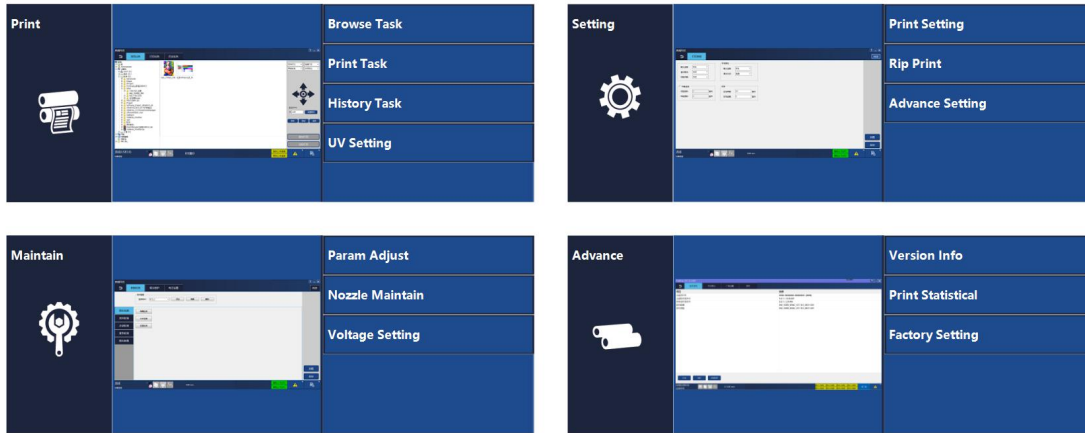
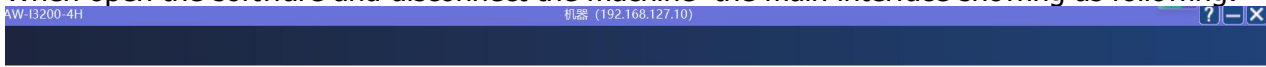
Install Photoprint software

名称	修改日期	类型	大小
Acrobat	2020/12/7 10:17	文件夹	
Cloud Install Instructions	2020/12/7 10:17	文件夹	
cloudfiles	2020/12/7 10:17	文件夹	
install	2020/12/7 10:16	文件夹	
OEM_Files	2020/12/7 10:16	文件夹	
Util	2020/12/7 10:16	文件夹	
Autorun.exe	2020/4/29 15:46	应用程序	252 KB
AUTORUN.INF	2020/4/29 15:46	安装信息	1 KB
Installation_Activation Guide.pdf	2017/9/4 17:29	Chrome HTML D...	844 KB
SAI Production Suite 19 Readme.pdf	2020/4/29 15:46	Chrome HTML D...	3,940 KB

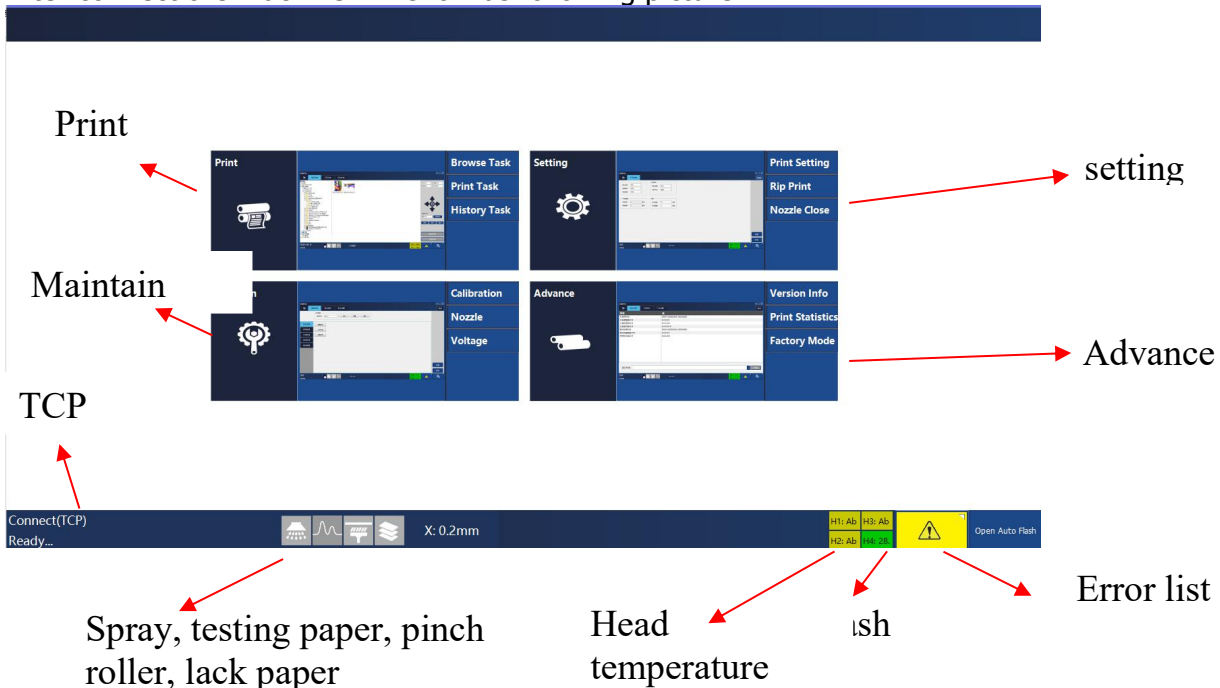
Warning: backup your key passwords, it need when install the software again

3.2 Printing software: print manger

When open the software and disconnect the machine the main interface showing as following:



After connect the machine will show as following picture



1 Left corner connection shows TCP network

2 The first one is spray, second one is media sensor to measure media, the third one is pinch roller and the fourth one is out of paper;

3 X raster: display the raster position of the carriage, unit is pixel;

4 Lower right corner green and yellow shows the print head connect state: green color means normal; yellow color means warn, Red color means abnormal; above picture shows print head 4connected normal; print head123 not connect print head;

5 Exclamation mark means error

6 Open auto. spray: waiting for auto spraying start or close

Chapter 4 Trouble shooting

This chapter only list some trouble you will meet, if not clear what to do for fixing machine, please contact ALLWIN local distributor engineer or ALLWIN factory engineer

4.1 Ink keep drop from heads when machine power on

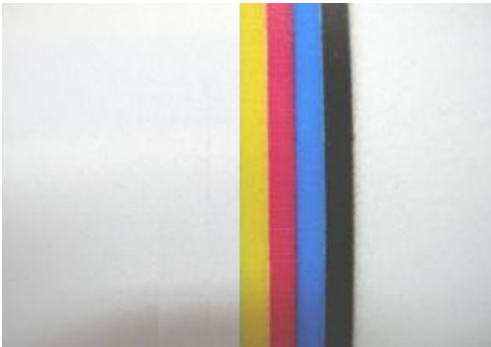
I. Check if you open the ink valves

II. Check the ink supply system or Negative pressure meter value

If Negative pressure system check the value normally from -3.2 to -5.5, if it near to 0 means machine lost negative pressure, need check the whole negative pressure system

4.2 Nozzle Spray Effect

The picture as below shows Nozzle Spray Effect. There's various reason to happen this effect.



- Check your print height right or not, normally 1.5mm to 1.8mm (Reduce print height will get better performance)
- Check anti-statics device work or not, You can use alcohol to wipe media surface before you print

Check Room temp and humidity, Room temperature: 18 to 35 degrees, Room humidity: 35% to 65%

- Check head voltage and Temp in machine software. Professional engineer can try adjust temp and voltage to save nozzle spray
- Check machine PE/ Ground wire
- Isolate printer from outside wind or other wind flow
- Clean head plate bottom (which near head surface), dirty dust will influence print quality

4.3 Ink not dry, looks glossy

UV ink need dry directly when printing, if not dry mostly cause by LED lamps which equip on machine carriage.

I. Check LED lamp lighting or not when machine printing

① Both side not lighting

- Check LED Lamp power supply running or not, 220V AC breaker situation
- Check Software setting. Main menu/ Tools/ UV setting

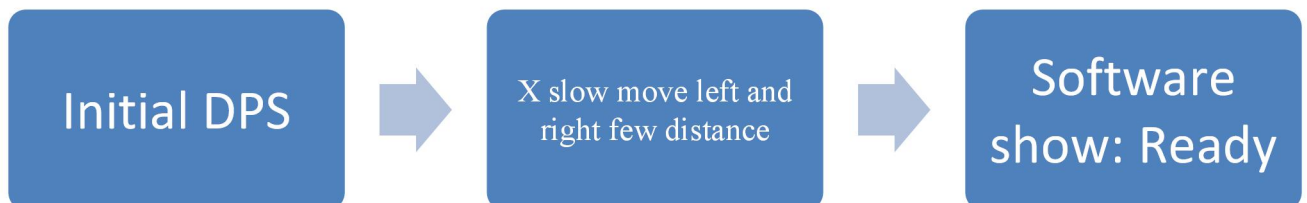
② One Lamp 30% not lighting

Exchange LED Lamp power supply box UV1 to UV2 (it directly connect to left/ right LED lamp).

- If problem move to different side means power supply box problem,
- If still same side LED lamp problem means LED lamp body or big power cable problem

4.4 Machine can not initial

Power off machine, manual move Z to middle, X move to right 10cm (not and X right or left edge), Y move to backside 5cm (Not stop in front edge), then restart machine, check machine stuck in which initial step

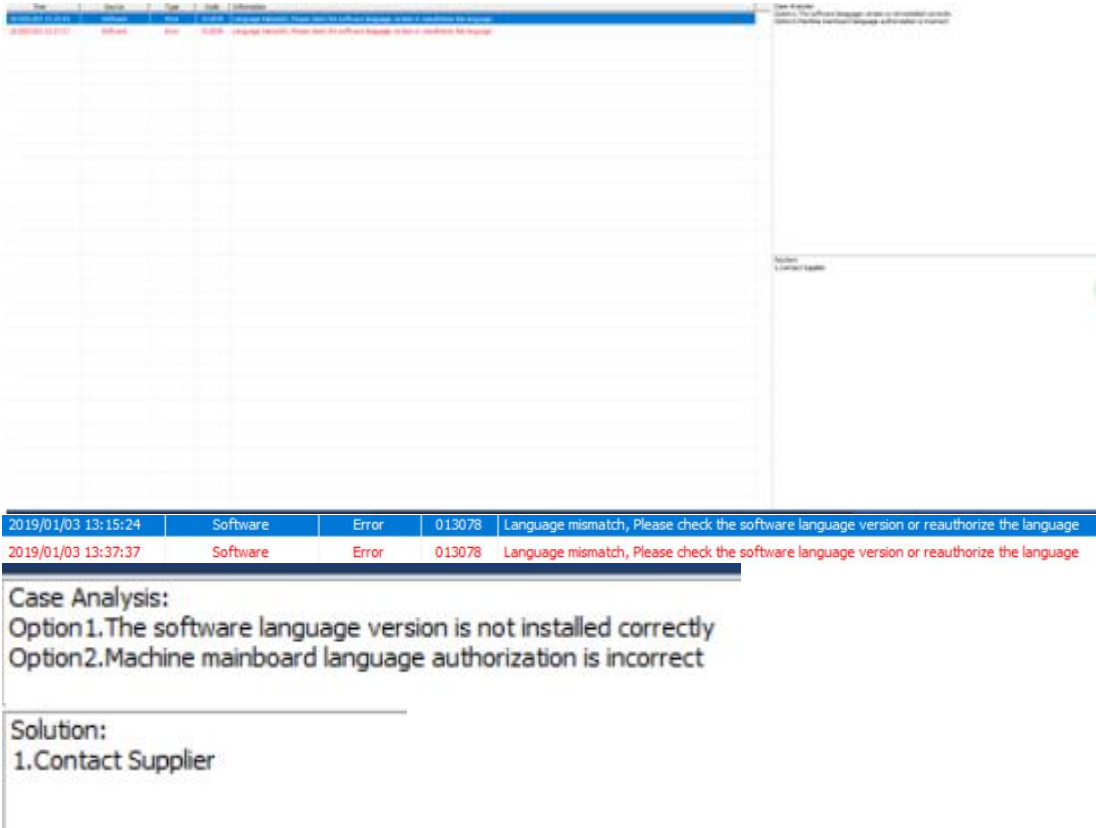


Debug details:

❖ Initial DSP: basic electronic boards communication initial, if shows initial DPS fail: need enter hardware factory setting error or need update FW. (this need professional engineer to setting, please contact local agent engineer or ALLWIN factory)

❖ X slow move to left and right few distance: If stuck, check X movement, X servo driver if gives error

4.5 Software error list info



Time	Module	Code	Message
2019/01/03 13:15:24	Software	Error	013078 Language mismatch, Please check the software language version or reauthorize the language
2019/01/03 13:37:37	Software	Error	013078 Language mismatch, Please check the software language version or reauthorize the language

Case Analysis:
Option 1. The software language version is not installed correctly
Option 2. Machine mainboard language authorization is incorrect

Solution:
1. Contact Supplier



Please check the error list info analysis and solution.

Notice: If your machine get error in software, take photo and consult ALLWIN local distributor engineer or ALLWIN factory engineer. This will help you faster fix machine