

UV

DIGITAL PRINTER



MT-FP6090-UV
INSTALLATION AND OPERATION
USER MANUAL

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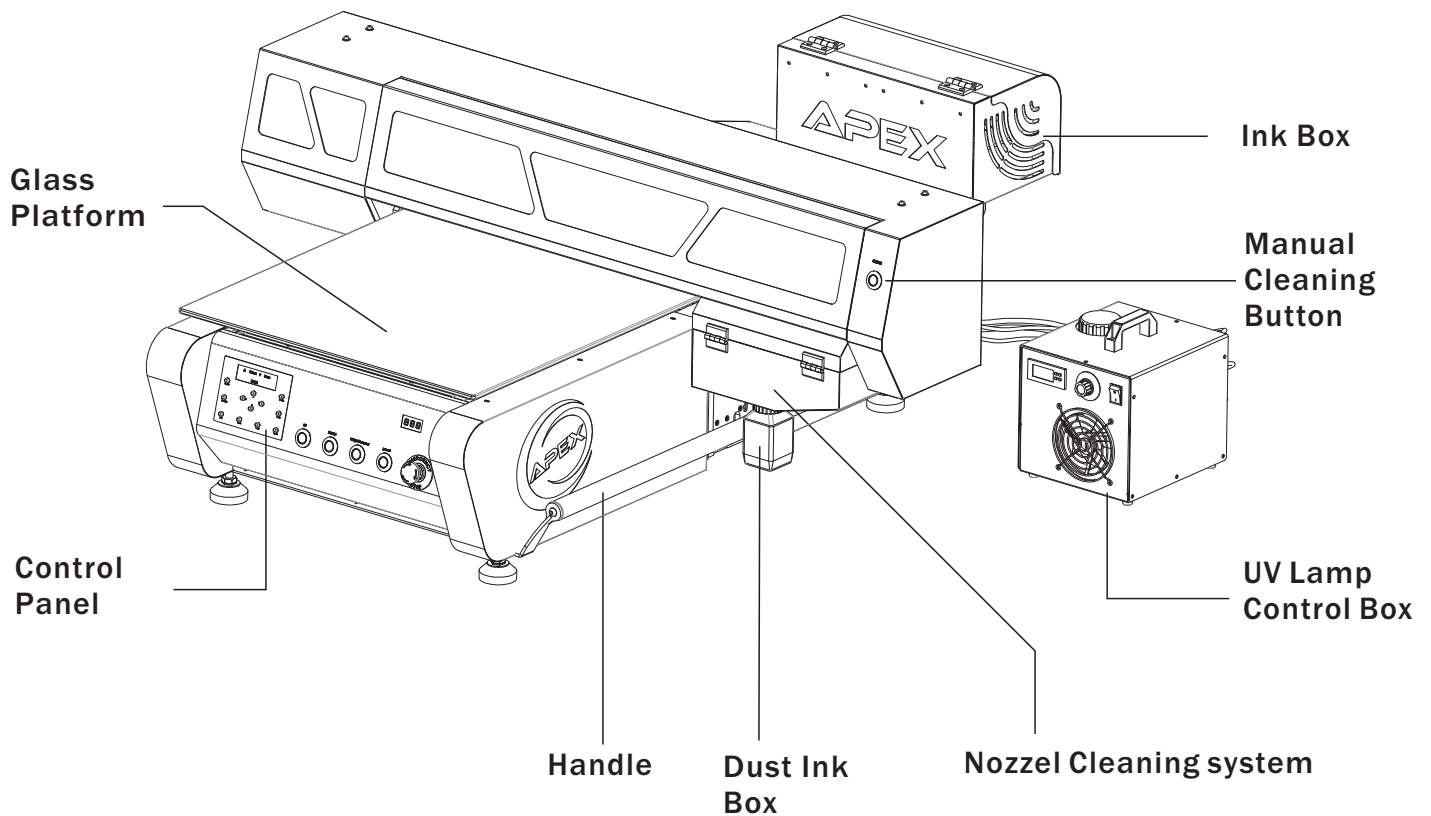
PART TWO INSTALLATION AND OPERATION

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Structure and Function



Parameters

Model: MT-FP6090-UV

Printing Size: 23.6" * 35.4"

Curing System: UV LED Lamp (Water cooling system)

Max. Height: 5.5"

Power: 50/60HZ 220V(±10%)<2A 110V(±10%)<4A

Environment Requirement: 68- 82°F HR40-60%

Printer Head: Epson DX5 (Nozzles 180x8)

X/Y/Z-Axis Motor: X/Y-Servor motor,Z-Stepping motor

RIP: Photo Print RIP

Computer Sys.: Microsoft Windows XP/Win7/win8-64bit

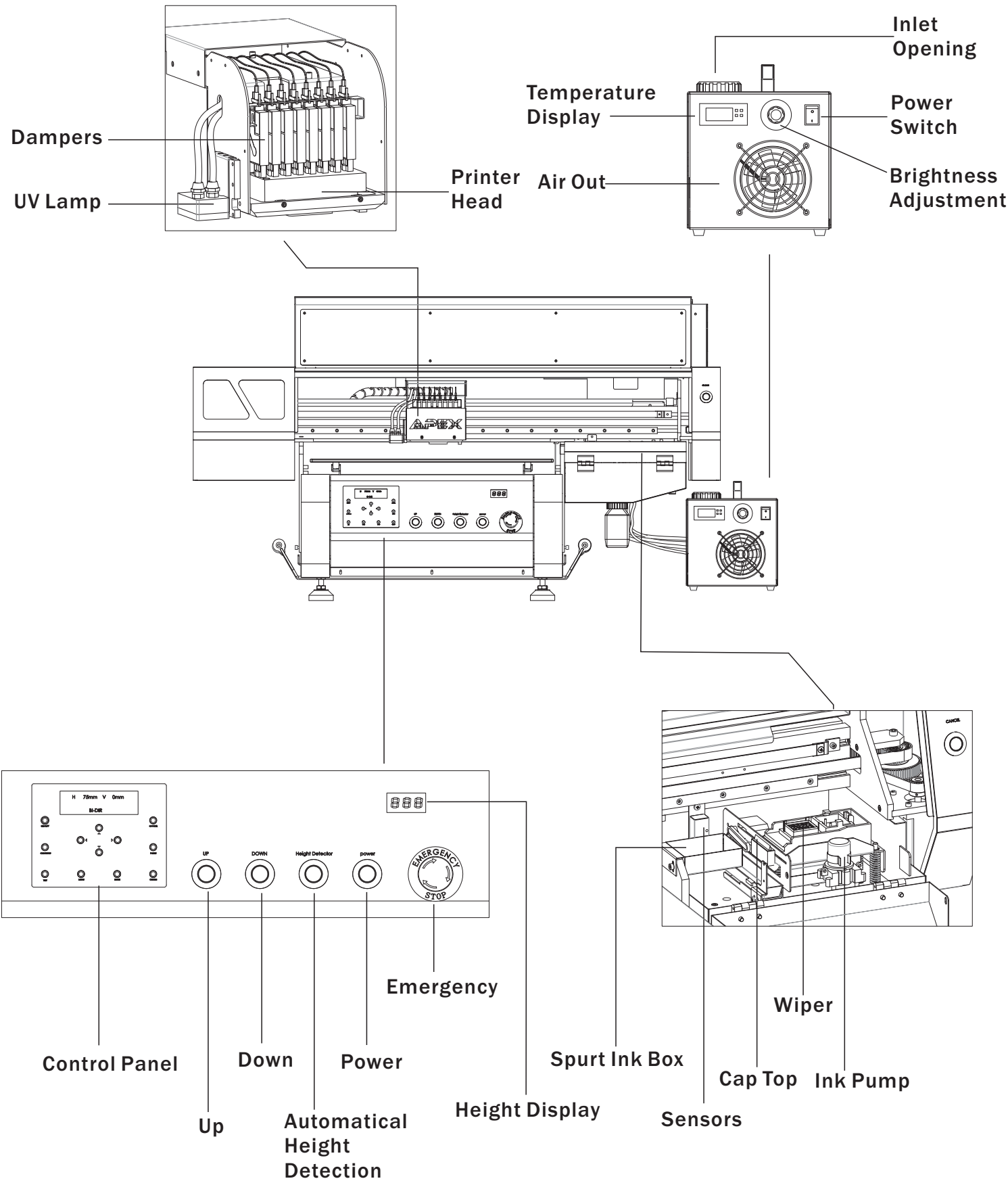
Ink Color: K C M Y W W W W

Joint: USB2.0

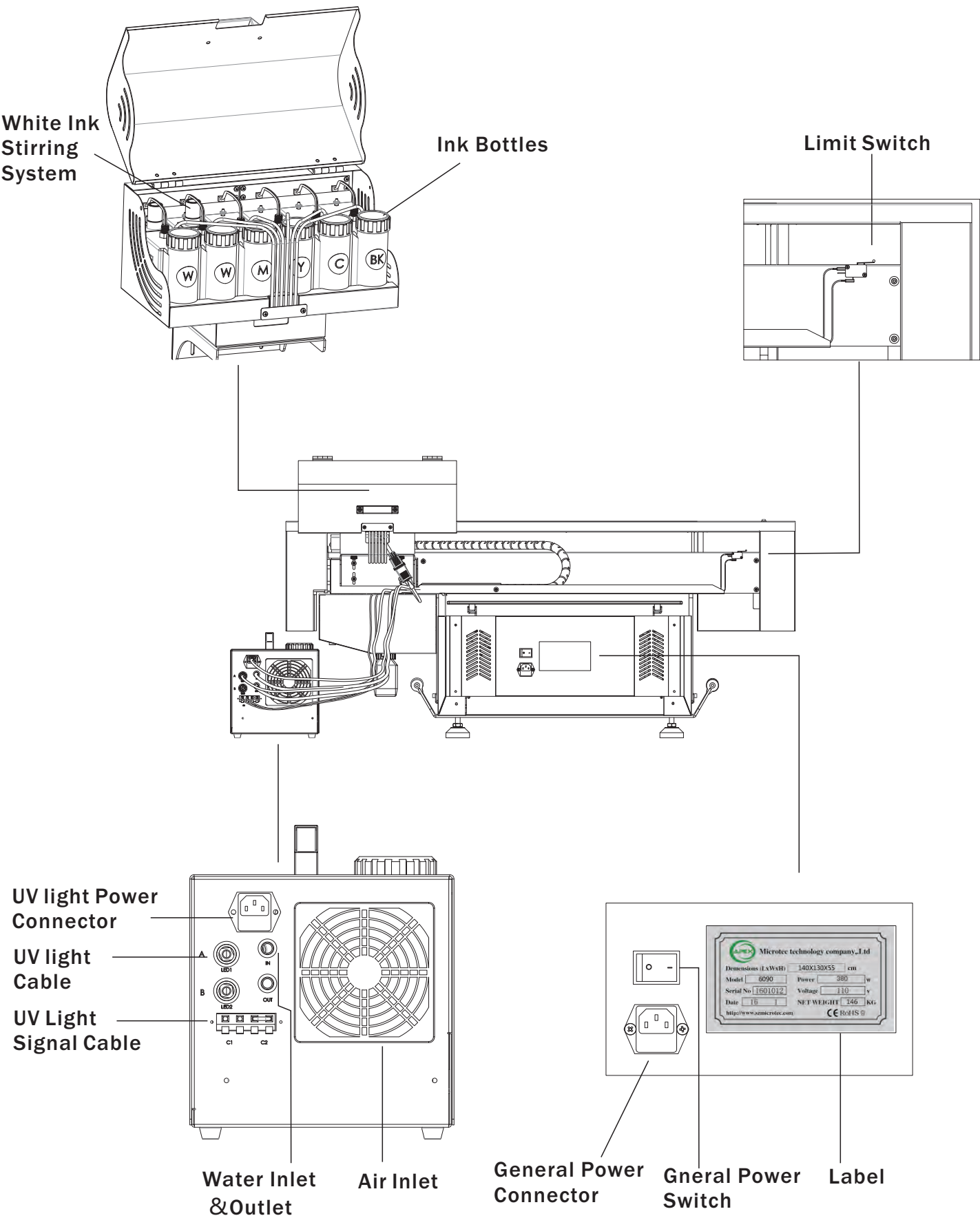
N.W.: 321.93lb

Machine Size: 55.1" * 51.2" * 21.7"

Front Structure Figure



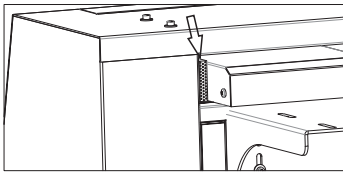
Back Structure



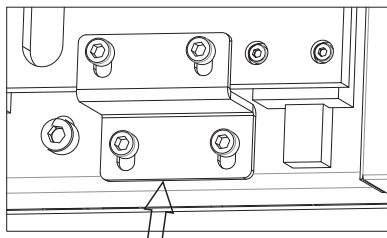
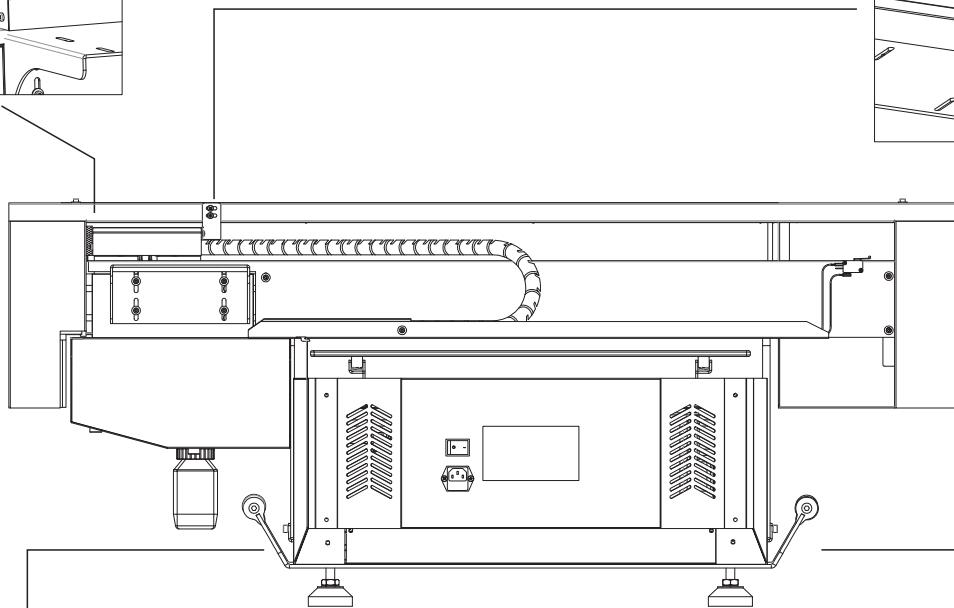
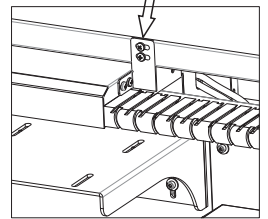
Preparation Before Installation

1. Put the machine on the table with at least 2cm thickness and good stability.
(Desktop instability will cause poor print quality)
2. Clean up the platform to make the surface clean.
3. Remove the corresponding fixed component following the diagram.
4. Printer shall be removed with Handles by 4-5 people.

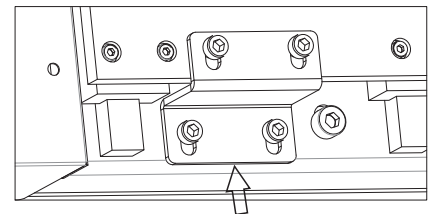
Remove White Foam



Remove the Red-head Holder Iron Sheet



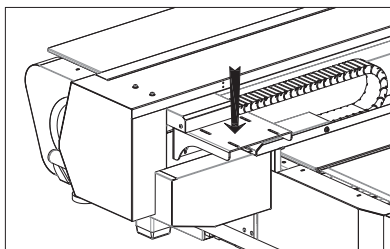
Remove the left red iron sheets



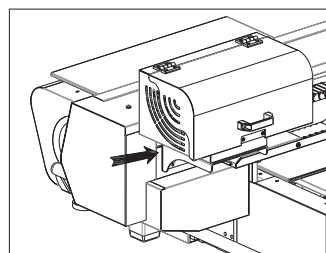
Remove the Right Red Iron Sheets

How to Install the Ink System

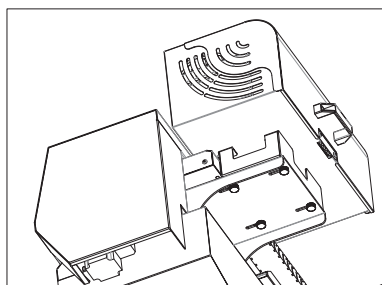
1. Install the Ink Case



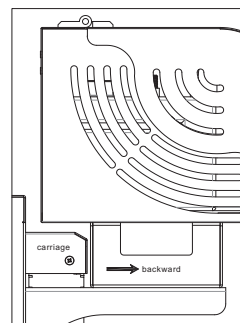
a. Unwrap the cables, and get the screws



b. Place the ink case here

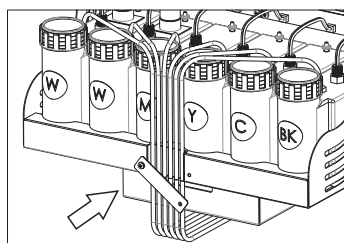


c. Fix the screws of the ink case, place move the case as far as possible from the carriage

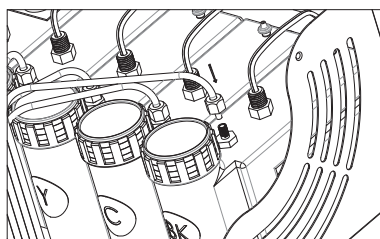


d. Check from side panel, and make sure the case will not block the carriage

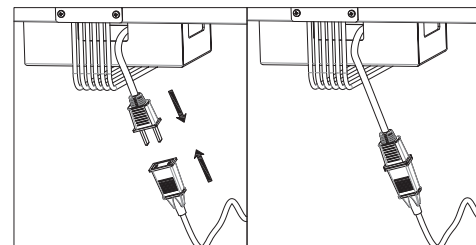
2. Connect the Power Cable



a. Fix the cables here

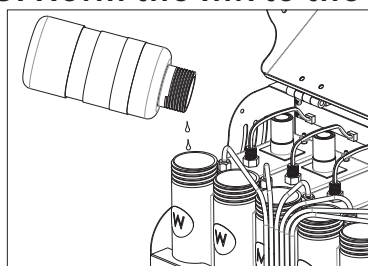


b. Screw up the tube to the ink bottle

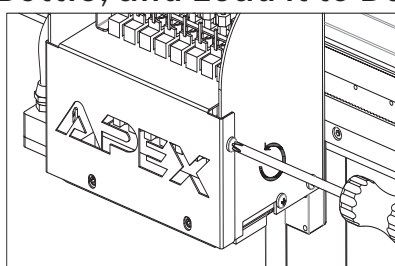


c. Connect the power cable of white ink stirring system

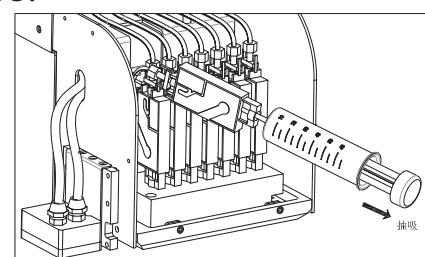
3. Refill the Ink to the Ink Bottle, and Lead it to Dampers:



a. Refill the ink



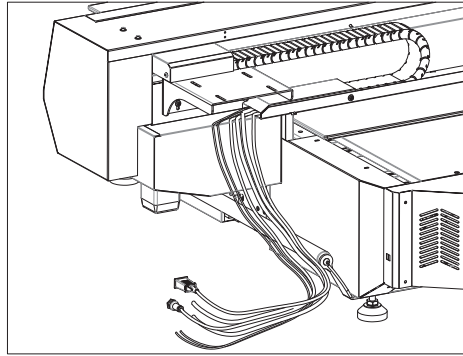
b. take off the damper cover



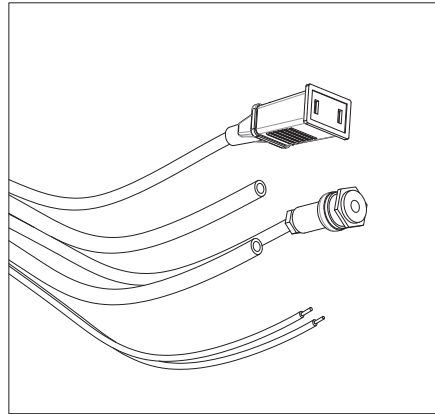
c. use the syringe to vacuum the ink out from the dampers

Water Cooling System

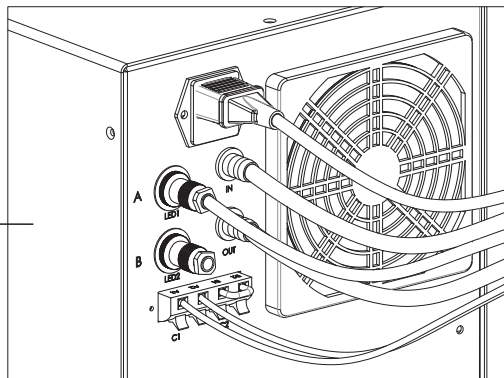
**Unwrap the
Cables**



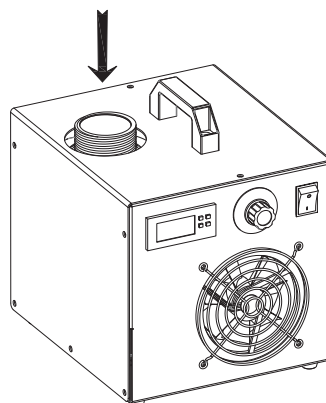
**Prepare All
the Tubes**

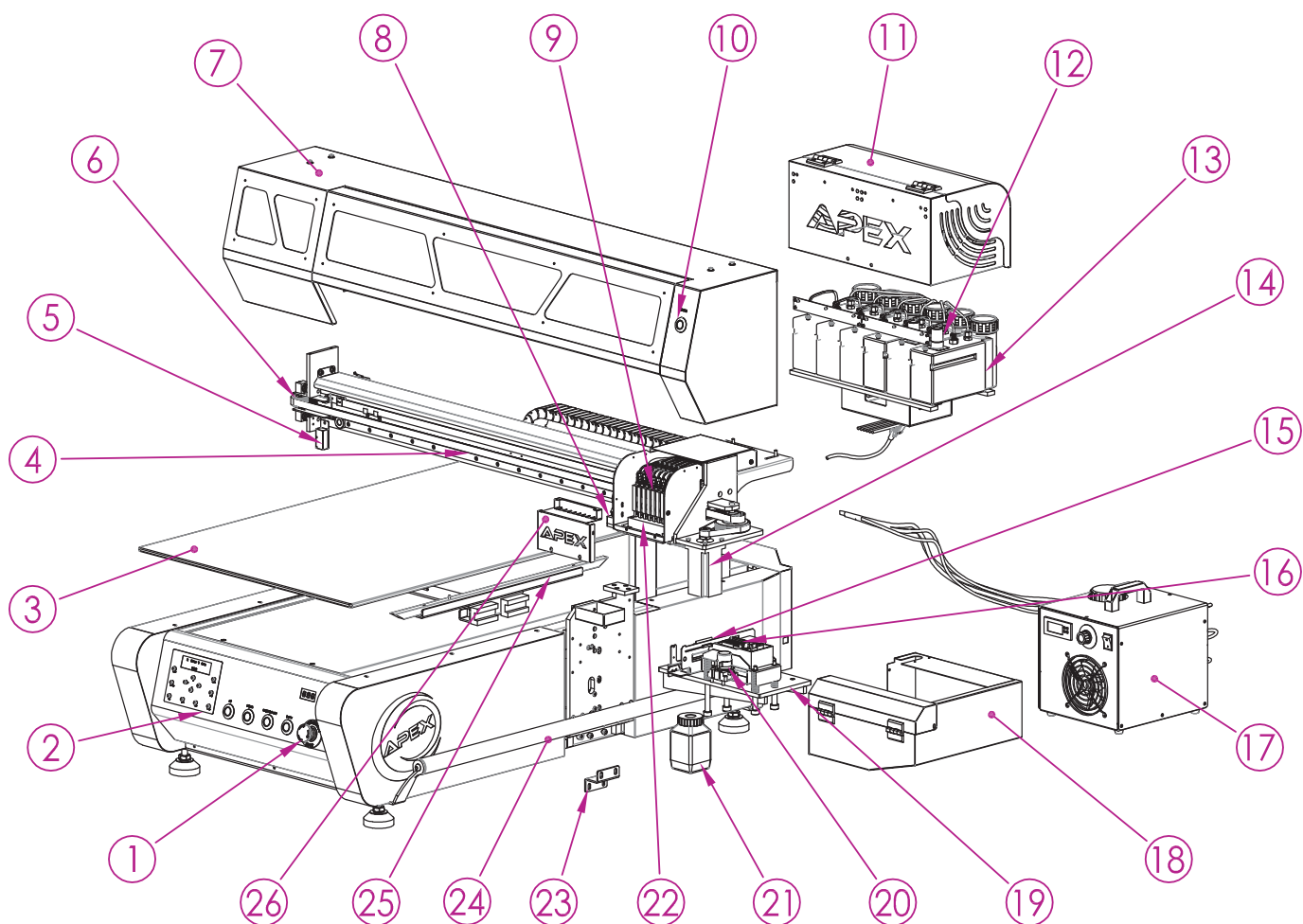


Connect the tubes
Brown cable to A1,
Blue cable to A2



**Open the Cover,
and Refill with Water
or Cooling Liquid 900ml**





NO.	Part	Quantity
1	Emergency Stop	1
2	Control Panel	1
3	Printing Table	1
4	Carriage Rail	1
5	Height Sensor	2
6	Belt Fastening	1
7	Printer Cover	1
8	UV LED	1
9	Damper	8
10	Manual Cleaning	1
11	Ink Bottle Case	1
12	White Ink Stirrer	2
13	Ink Bottle	6

NO.	Part	Quantity
14	Carriage Motor	1
15	Wiper	1
16	Cap Top	1
17	Water Cooling Case	1
18	Capping System Case	1
19	Capping System	1
20	Waste Ink Pump	1
21	Waste Ink Bottle	1
22	Printer Head	1
23	Fixture	2
24	Handle	2
25	Adjustment For Even	2
26	Dampers Cover	1

How to Install the Driver

Before Installation:

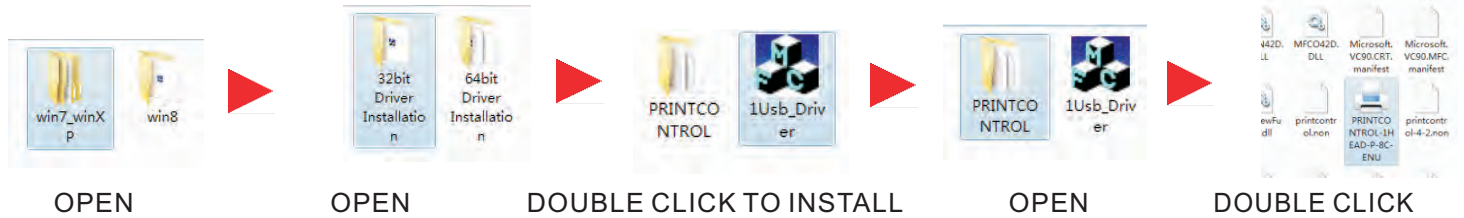
Notes: Please closed or shut down all the anti-virus software

before installation of the driver. Then copy UV-4060udisk file to computer.

Power on printer, connect the USB cable and plug the USB dongle, please kindly follow the below steps:

How to Install it

FOR WINXP OR WIN7 - 32BIT:



OPEN

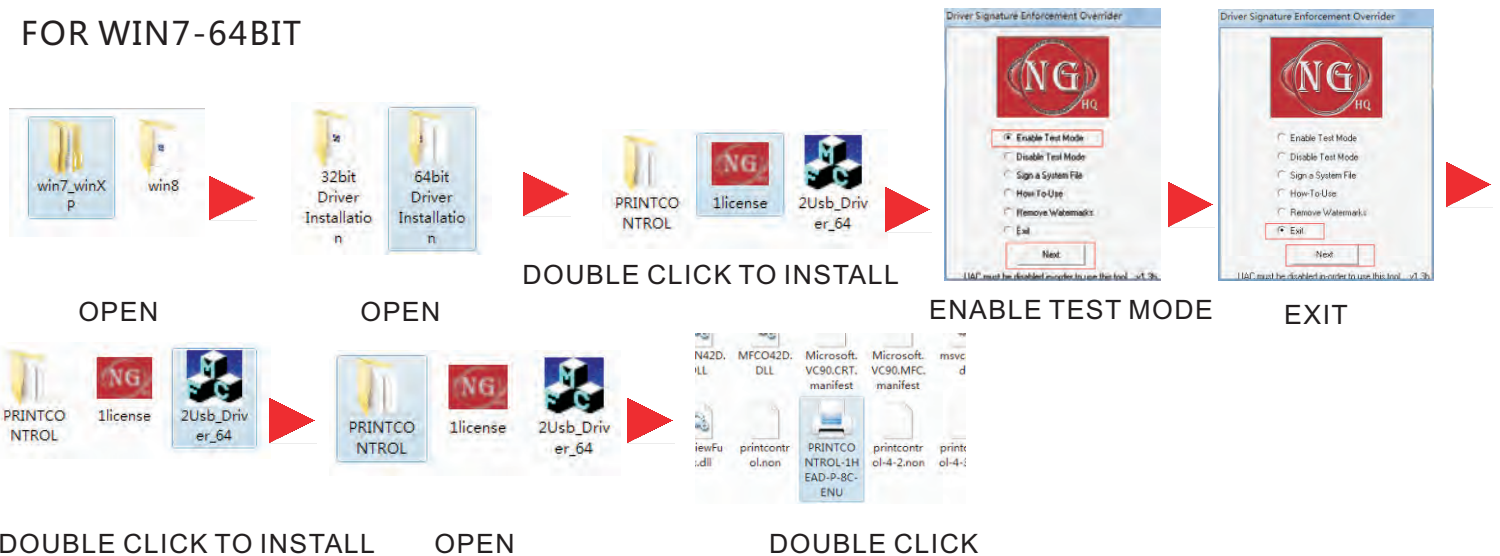
OPEN

DOUBLE CLICK TO INSTALL

OPEN

DOUBLE CLICK

FOR WIN7-64BIT



OPEN

OPEN

DOUBLE CLICK TO INSTALL

ENABLE TEST MODE

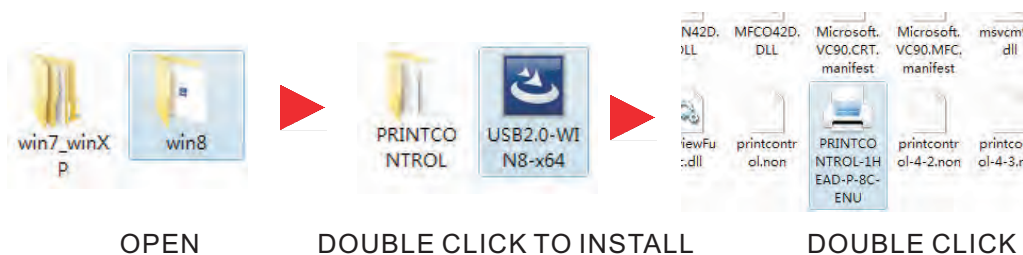
EXIT

DOUBLE CLICK TO INSTALL

OPEN

DOUBLE CLICK

FOR WIN8



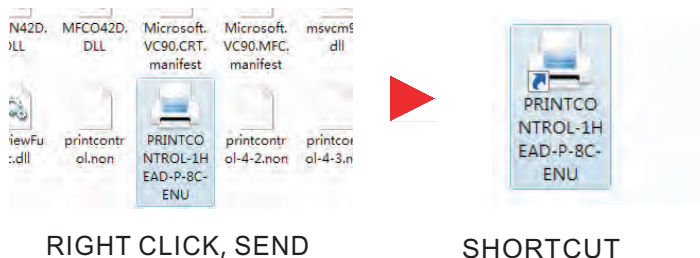
OPEN

DOUBLE CLICK TO INSTALL

DOUBLE CLICK

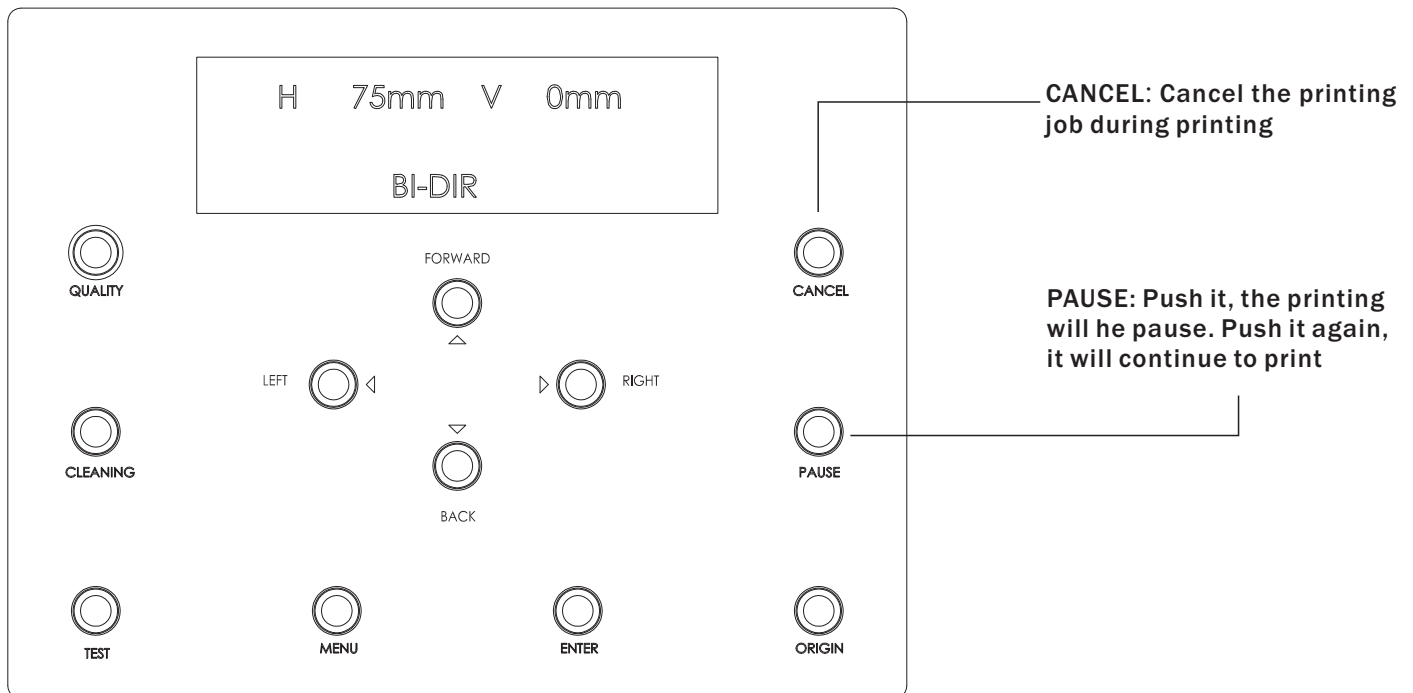
FINISHED INSTALLATION

* When finished installation, there will be a driver icon in the right bottom of PC. Right click on the icon, it will pop up a window to show the status: online or offline. When shows online, the printer is connected with computer, and ready for printing. When the icon is gone, please find the installation file, and right click to send the icon shortcut to desktop.



How to Use the Control Panel

- * Control panel is working when printer is online
- * Below are the basic operation, and more info please check the more skill folder



*FORWARD: Printer table move forwards

*BACK: Printer table move back

*LEFT:

1. Move the carriage to left side. Push it once, the carriage move once. Push twice, printer head is still. Push third time, the printer head will move again.
2. It is the backward button also, when finished cleaning, push this button to the home page or the printer cannot print

*RIGHT: Printer head move to right. But for this button cannot move the printer head back to home position, only the enter button can do it.

*QUALITY: Adjust the printing quality. Enter this function, use the Left and Right to choose uni-direction or Bi-direction. Push the enter to confirm

*CLEANING:

1. Cleaning: Push the cleaning button to enter this function. Push enter, the printer head will start auto cleaning. Push left button to backward the home page.
2. ink fill cleaning: push cleaning button to enter this function. Push twice Back button then push the enter button to start the ink fill cleaning. Push left button to backward the home page.

*TEST: Push it once, Printer head will do a nuzzle test

*MENU: Backup info and setting, usually we will not use this button

*ENTER:

1. Confirm button.
2. Move the printer head back to home position

*ORIGIN :

1. Default Origin is H75mmV0mm, please do not change it if not specific request
2. If the origin setting is changed, please reinstall the driver, then the origin will be reset to H75mmV0mm.

How to Install and Operate the Software

- *Copy UV-4060 disk into D disk, start printer, make USB line connected and plug dongle.
- *Open "2. software" folder and install according to "installation instruction".

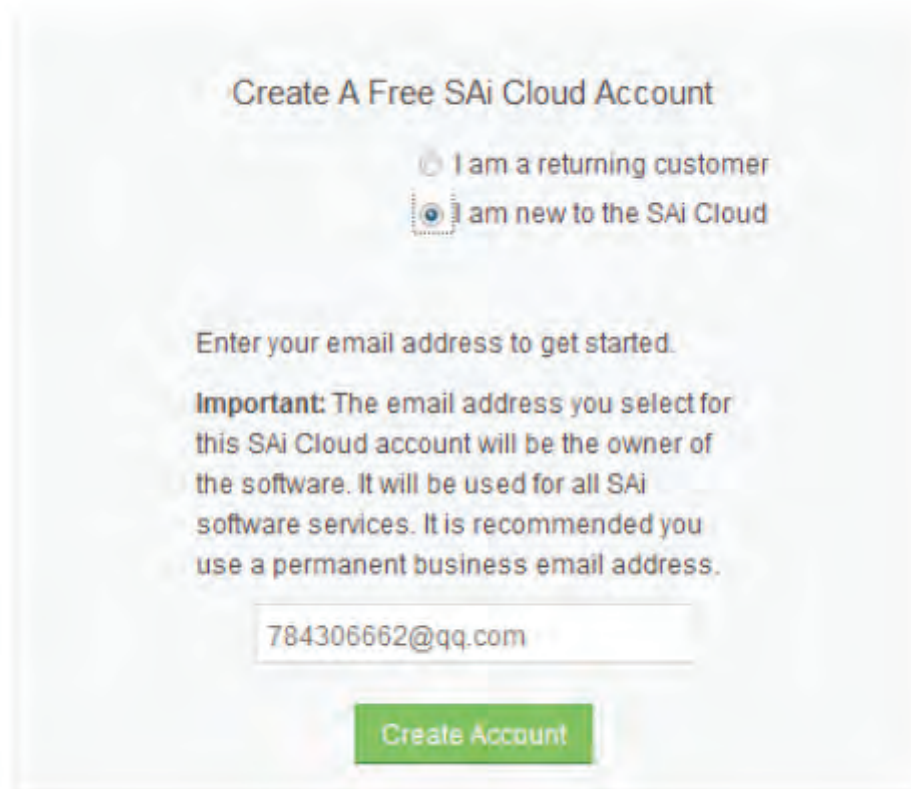
1. Install and activate software on an online computer

1. Launch your browser and type <https://www.saicloud.com> in address bar and press enter, then input your activation code, then click **Activate**, activation code can be found in the code label in software package.



The screenshot shows the 'Activation Code' page on the SAi Cloud website. It features a heading 'Activation Code' and a subheading 'Please enter the activation code that accompanied your software purchase.' Below this, there is a text input field labeled 'Activation Code' containing the code '5H4LALJJCZHTTW37YZDU'. A green 'Activate' button is positioned below the input field.

2. In login section, click **I am new to the SAi Cloud** and input your email address, then click **Create Account**, an email will be sent to your mailbox.



The screenshot shows the 'Create A Free SAi Cloud Account' page. It has a heading 'Create A Free SAi Cloud Account' and two radio buttons: 'I am a returning customer' (selected) and 'I am new to the SAi Cloud'. Below the radio buttons, there is a text input field for an email address, which contains '784306662@qq.com'. A green 'Create Account' button is located at the bottom of the form.

3. Check your mailbox and click website link in the email then complete the information fields.

The image shows two overlapping windows. The background window is titled 'Create Account' and contains several input fields: Email, Password (with a note 'Password must be at least 8 characters'), Repeat Password, Name, Company Name, Country (a dropdown menu), Time Zone (a dropdown menu), Address Line 1, Address Line 2, City, State/Province, and Zip/Postal. A green 'Create Account' button is at the bottom. The foreground window is titled 'Terms And Conditions' and 'Terms and Conditions User Agreement'. It contains text about the agreement and a green 'I Accept All Terms and Conditions' button. A blue arrow points from the 'Create Account' form to the 'Terms and Conditions' window. Below the windows, the text 'Step 2. Add Software to your SAi Cloud Account' is displayed with a blue arrow pointing down.

4. Insert installation disk. It will be auto-played. If not, open **Autorun** disk. Then install software step by step by following the wizard.

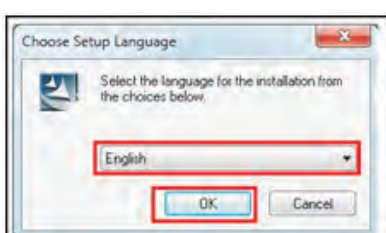


Installation instructions:

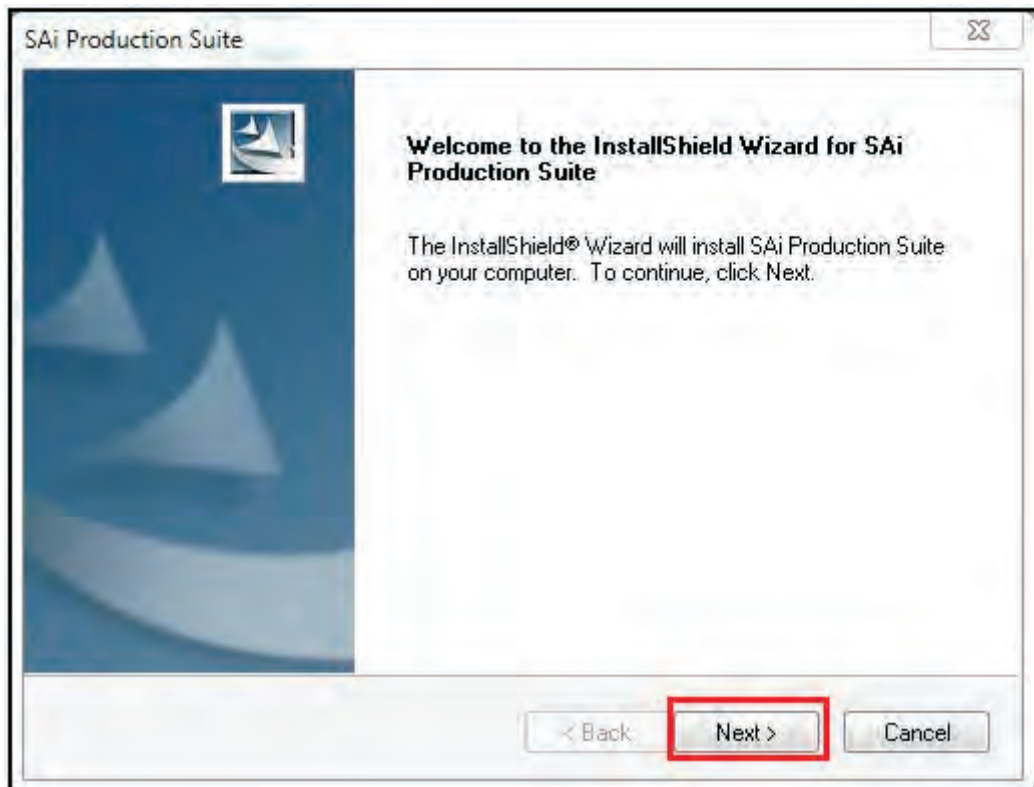
1. To install Photoprint software, to open



to choose language



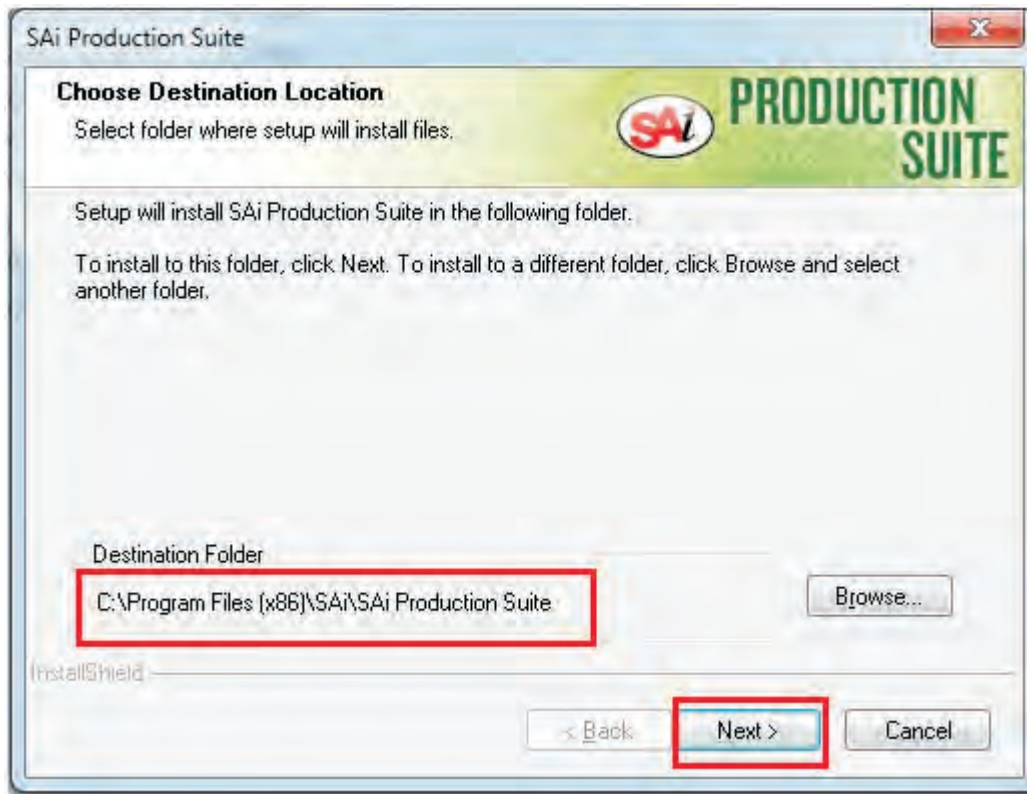
2. Then, next step:



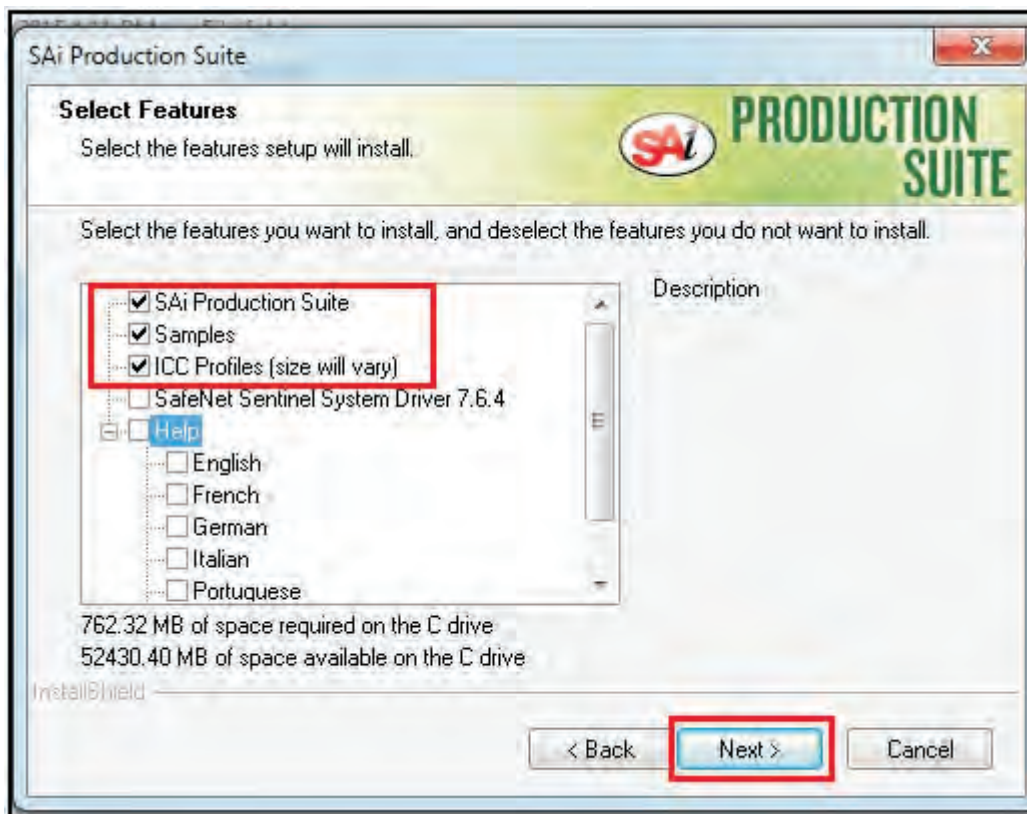
Select "I accept the terms of the license agreement", then "Next"



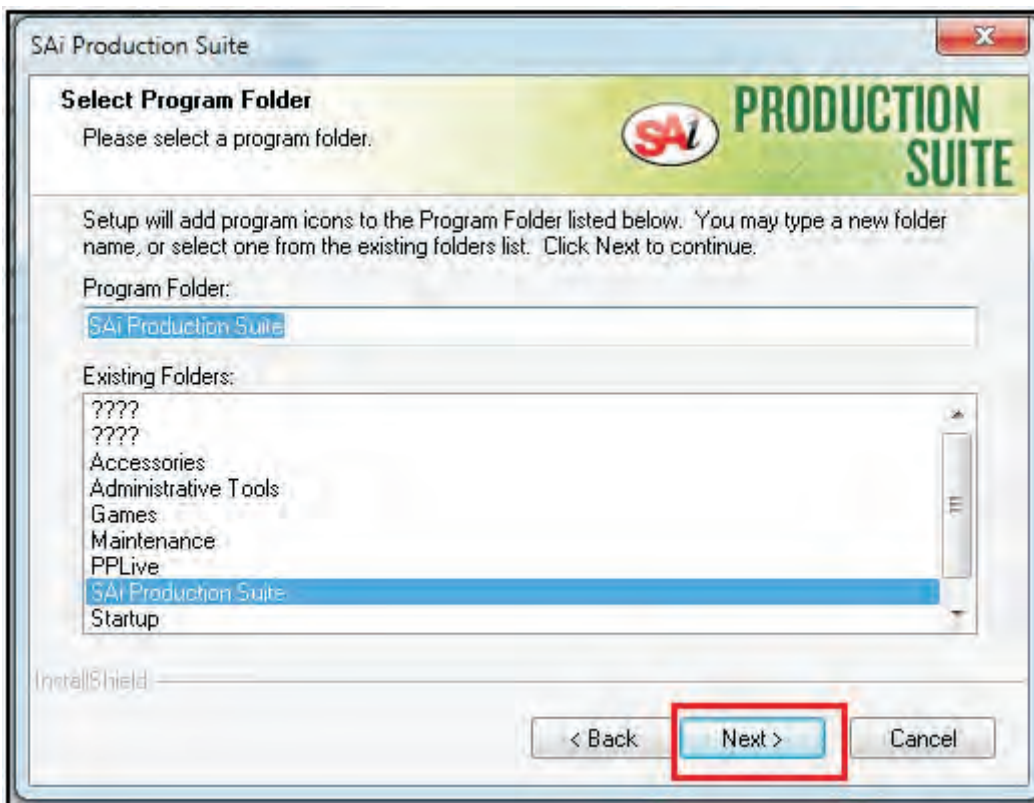
Find “Choose Destination Location” dialog box, and choose Destination Folder, then click “Next”



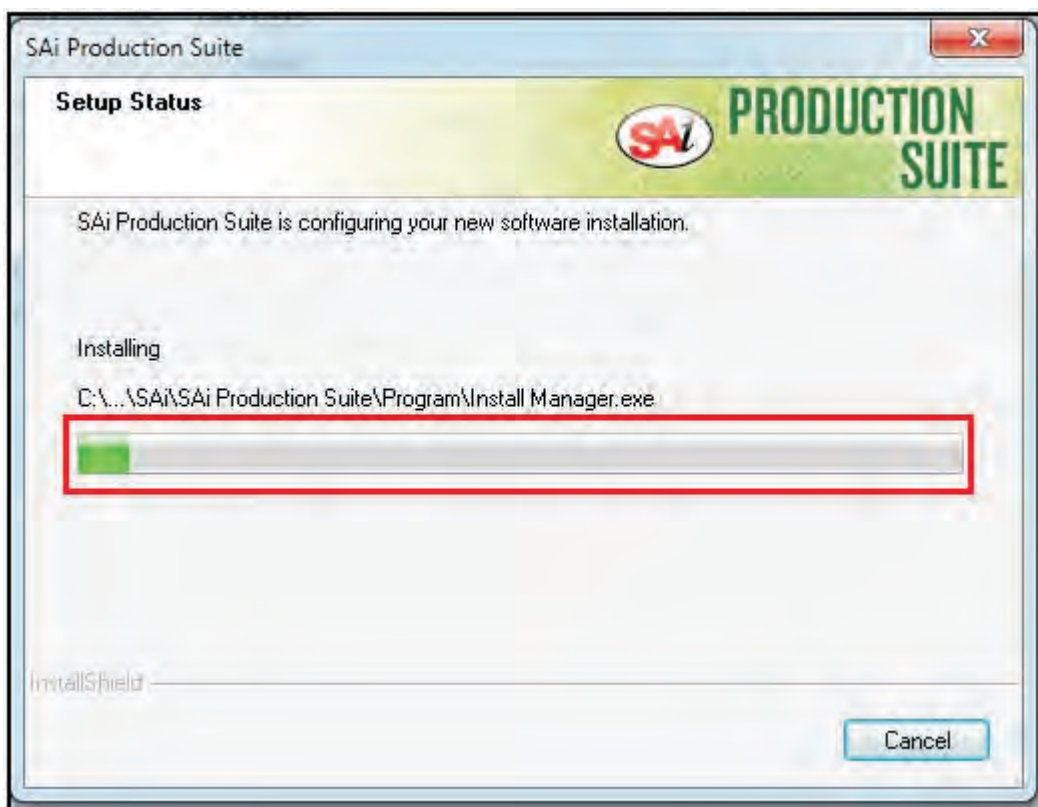
Above several options are necessary, another features can be selected according to different requirement. Click “Next”



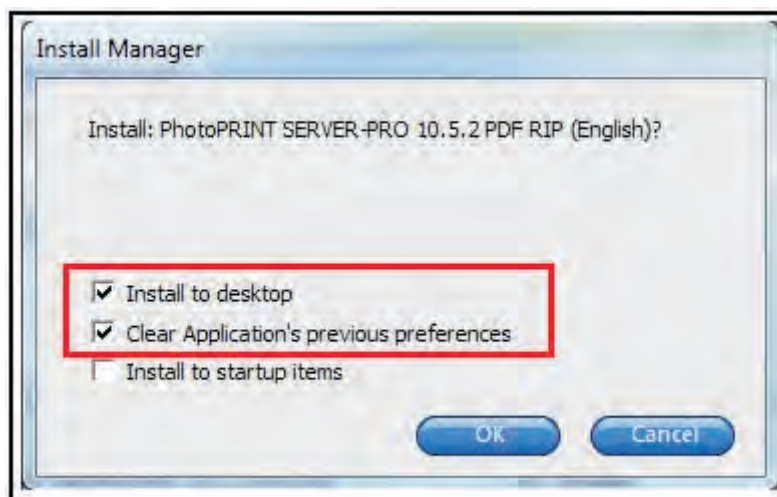
Keep default selection as above steps, do not choose other option, then “Next”. Installing status will be shown as below.



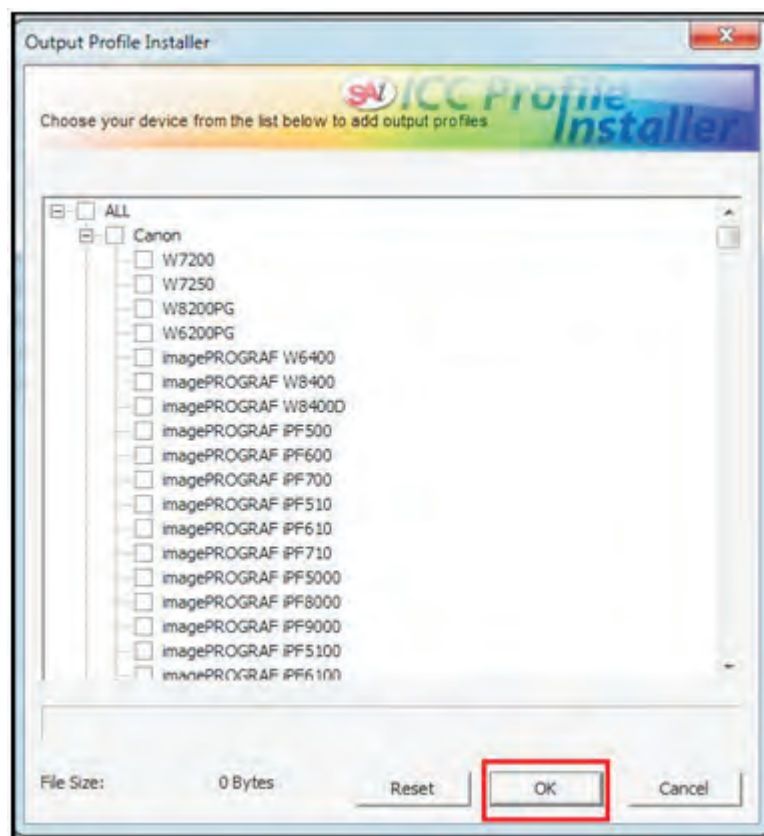
When the program to run the installation is complete, as shown below:



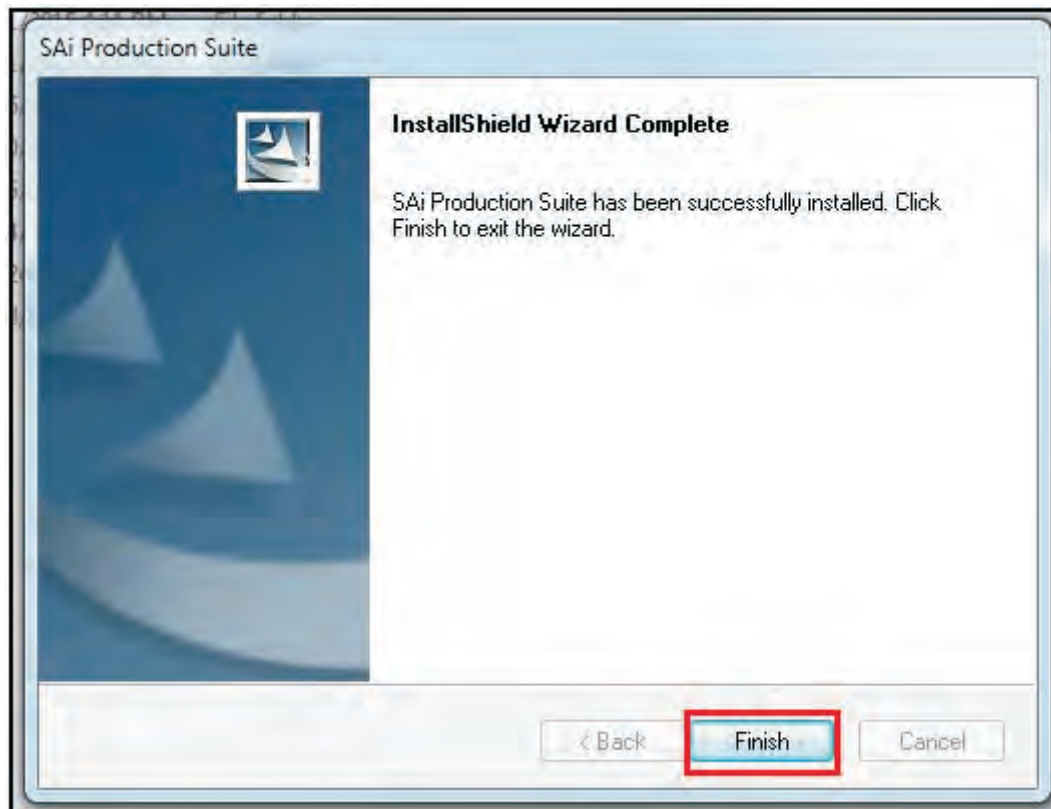
After completion of the program will run automatically pop up "Install Manager", please choose according to the diagram, after the selection is complete click Done, as follows: From the next dialog box "Install Manager", click "OK".



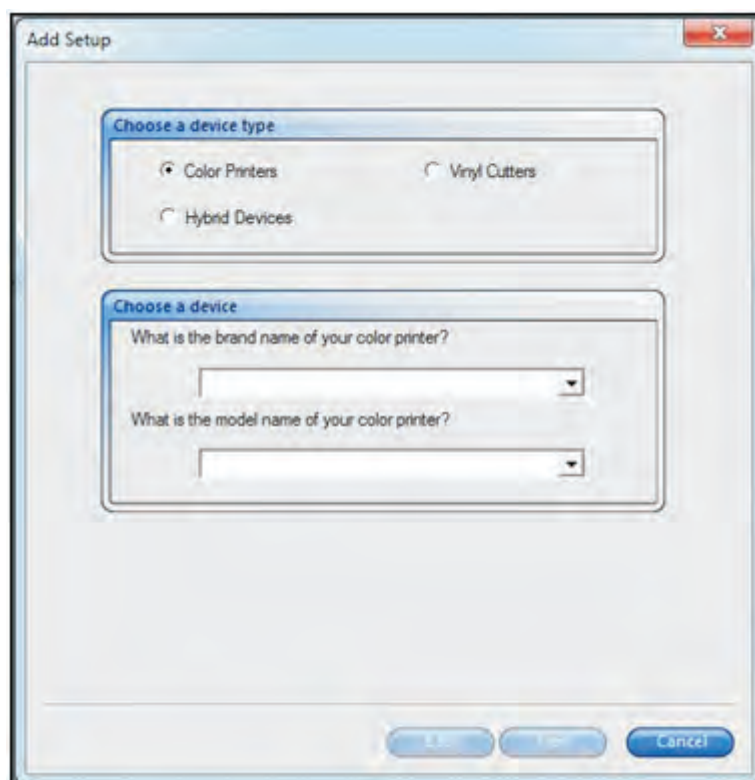
Then installing continues, click "OK".



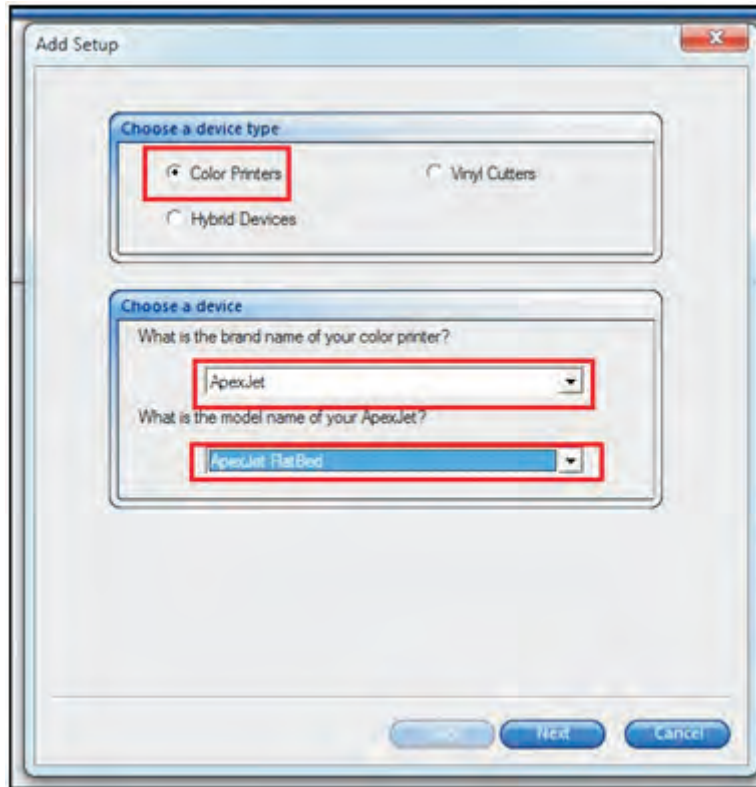
Click “Finished” on next dialog box, as shown:.



Find the PhotoPrint DX software icon on desktop, and double click it. Then the software opens and comes the dialog box “Add Setup”



From the combo box “What is the model name of Apexjet Apexjet FlatBed, Then click “Next”

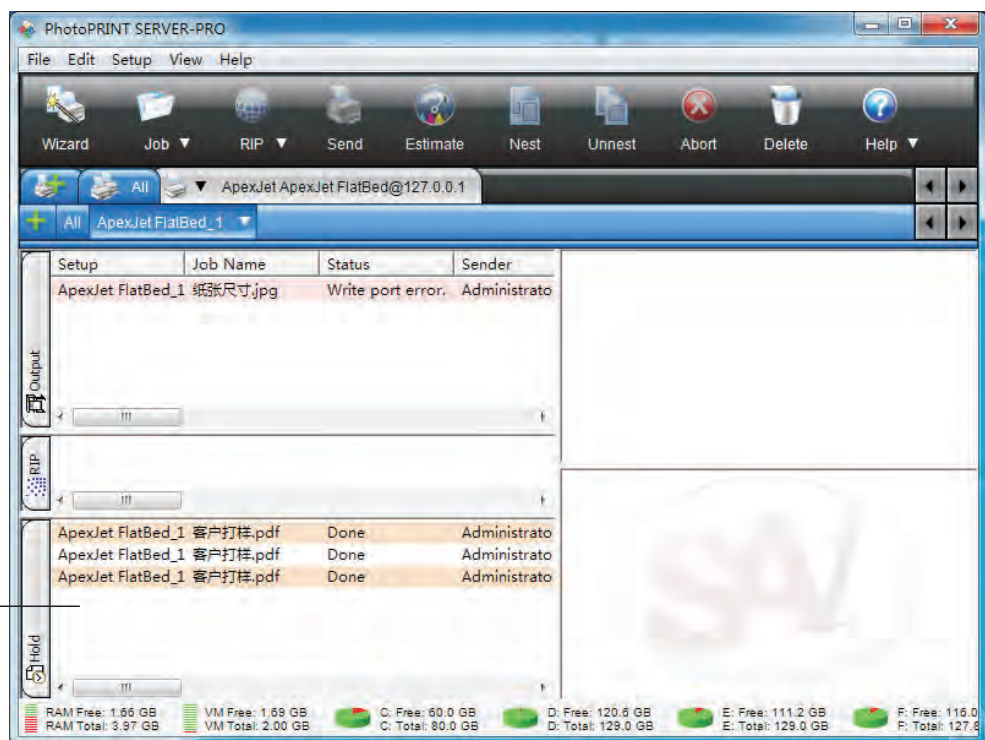


As below select “TCP/IP”, Then on the pop-up dialog box “Communication”, fill in “TCP/IP address” with “127.0.0.1”, and click “OK”.



Finally click “Finish”

Open Photoprint,
Pop up this page
drage a image into
this area, double click
the image to proceed
further setting.



Printing size setting,
generally 60 and
90 cm.

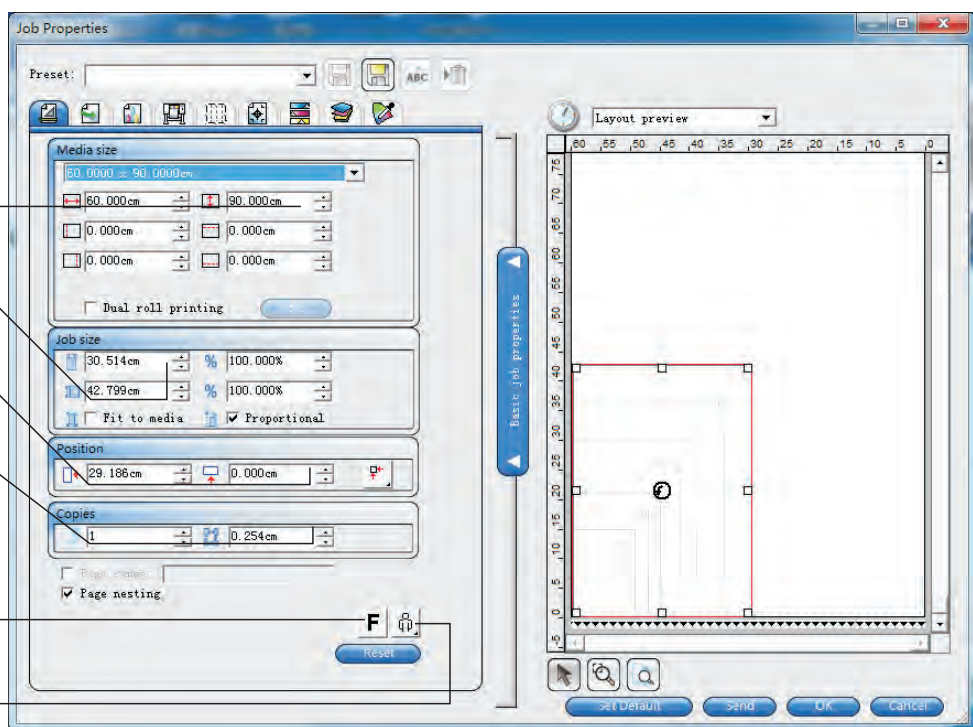
Image size setting

The starting position
Setting

Copy image number
and interval setting

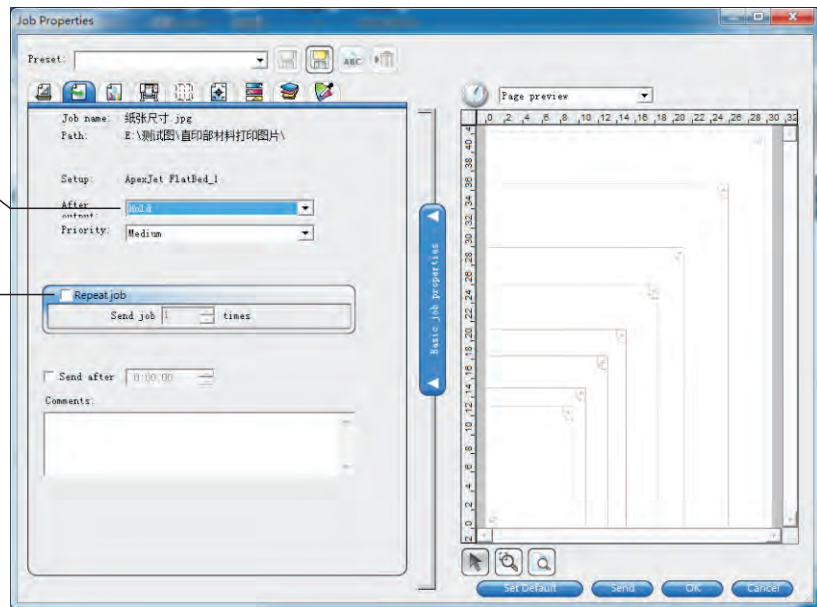
Mirror setting

Image rotary



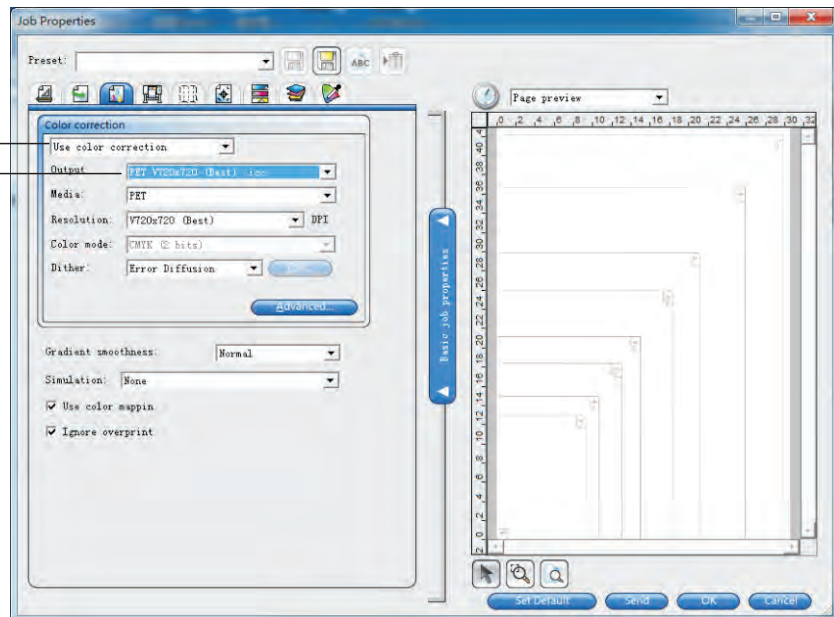
Choose hold to save image and settings;
Choose delete to delete image automatically.

Repeated printing



Suggest use color correction

Choose resolution.
Higher resolution with
slower speed

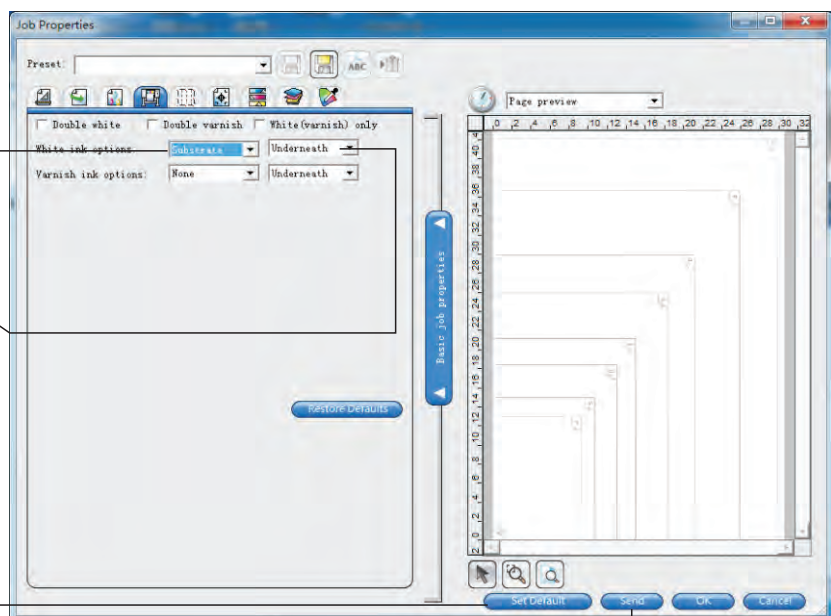


White ink:
substrate: full white
under color: white under
the colors
none: No white

underneath: White ink
under the color ink ,
overlay: White ink
above the color ink,
used for galss, acrylic
printing.

Click to Save default
setting to make settings
automatically used.

Printing start



Printing and Precautions

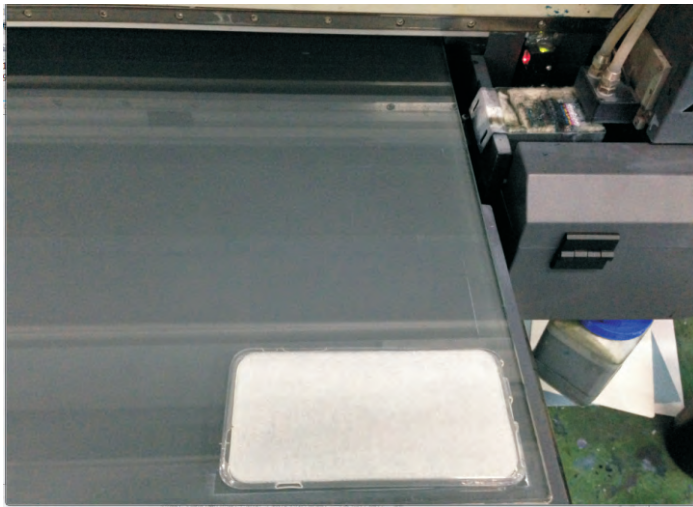
1) Pre-requisite

1. The printer is installed as previous description, press test button to print the completed nozzle checking picture.
2. All software and driver installed. Open software and the machine is in online status.

2) Printing process(For example: Print on cellphone case)

1. Sample placement:

Make the cellphone case surface cleaned and place in the platform position (1cm,1cm) .



Precautions :

1. The sample surface should be clean.
2. Use pre-treatment solution oil on glass or some metals before printing.
3. Use bi-direction printing for flat surface
Use uni-direction for curved surface.
4. Flat bottom sample can be directly placed on the platform and easily moveable should be fixed by tape or moulds. The leather or plastic film should use vacuum table.
5. Check UV brightness according to sample distortion. Generally set at 40. Easily heated and distorted set at 20-30. In the real operation, use the lowest brightness at curing. Low brightness can prolong the UV Lamp lifetime.

2. Image Option and rework:

Choose HD image.

If required, rework image to make image size and shape suitable for cellphone case.

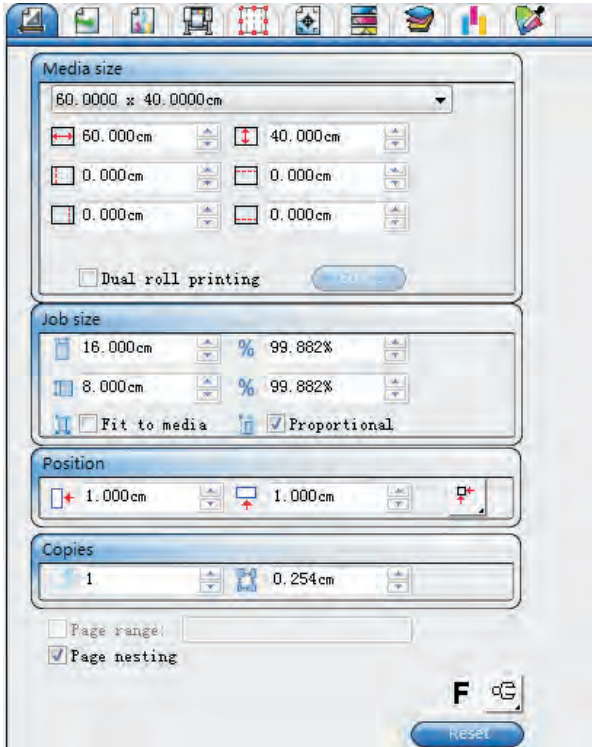


Pre-cautions

1. HD image can improve the printing quality.
2. Adjust the image size and share to fit the sample.
3. Add image brightness and contrast ratio in Photoshop for better quality.
4. If print spot color, build spot color channel in Photoshop in advance.

3. Software Content Settings:

Drag the image into the Photoprint, Set the pic size, the start print position(1cm,1cm), with reference to Page11--- "Software Installation and Use"



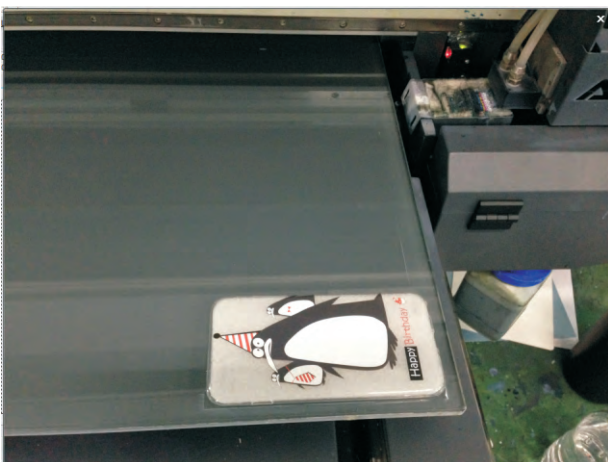
Cautions.

1. The pic size and position setting, and direction.
2. Select whether to use Mirror Printing.
3. Select whether to save after printing.
4. Select ICC file and resolution, general choose 720*720 resolution.
5. Select the use of white ink;
6. Select the Overlay or Underneath.

This section may refer to Page11--- "Software Installation and Use."

4. Prepare the Machine:

Adjust the height of the printhead from the printing surface to 1-2mm, Turn on the UV lamp, adjust the brightness, if necessary, can send a job to print.



Cautions :

Machine Parts:

1. Adjust the distance between the printhead and the printing surface: general is 1-2mm, When printing plane thermal deformation, should elevate moderately in advance. General printing height can be adjusted by the height switch, the transparent & hollow samples should be adjusted manually.
2. Select the Uni-direction or Bi-direction according to the sample flatness.
3. Adjust the brightness of UV light according to the samples degree of deformation and ink amount.

Reference video: https://www.youtube.com/watch?v=YS2b98zFB_E

Maintenance Records

1. Continuous use and maintenance requirements

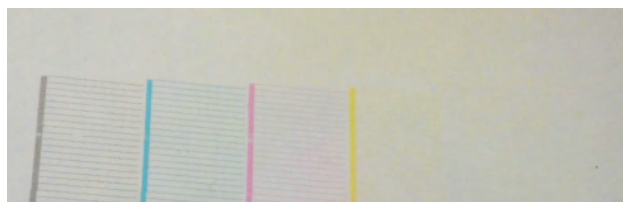
Daily Task	1.Do a cleaning, check the nozzles. 2 Clean up wiper and rubber parts of Cap Top.	https://www.youtube.com/watch?v=59vLBEtVMly https://www.youtube.com/watch?v=AVzehgadhKI
Weekly Task	1.Clean encoder strip. 2.Clean the surface of UV light.	https://www.youtube.com/watch?v=O7yFdrJotFo
Monthly Task	1.Add lubricating oil to rails and wheel(X/Y/Z).	https://www.youtube.com/watch?v=21nWwTcqqCY
Seasonly Task	1.Replace the Cap Top. 2.Replace the wiper. 3.Replace the damper. 4.Clean the UV light.	https://www.youtube.com/watch?v=_wGiUOp5g2s https://www.youtube.com/watch?v=nc6BBUzSQFA https://www.youtube.com/watch?v=VaEOob7rPSO https://www.youtube.com/watch?v=OBaa5rW209c
Year Task	1.Replace the carriage	https://www.youtube.com/watch?v=p3rMhb8IQul

2. Discontinuous use and maintenance requirements

Without use in a week	1. Spray anti-rust oil to rails and wheel(X/Y/Z).	https://www.youtube.com/watch?v=sjSIPT1raqc
Without use in a month	1.Clean up ink tubes. 2.Remove printhead wipe it with clean cloth and keep in dark place.	https://www.youtube.com/watch?v=OBaa5rW209c https://www.youtube.com/watch?v=URml5hua-34

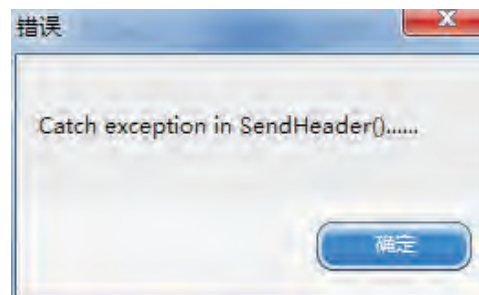
Trouble Shooting


Q1: The checklist for nozzles when test strip not complete



<p>Step 1: Do a small cleaning, press TEST to check the nozzles. If there is more than 10% break line of a certain color, follow Step 2.</p>	<p>https://www.youtube.com/watch?v=59vLBetVMLY</p>
<p>Step 2: Replace the corresponding damper of the break line color. Do small cleaning, press TEST to print a test strip. If still exist the problem, follow Step 3.</p>	<p>https://www.youtube.com/watch?v=VaEOob7rPS0 https://www.youtube.com/watch?v=59vLBetVMLY</p>
<p>Step 3: Replace Cap Top. Do small cleaning and press TEST to check nozzles. If still exist a problem, contact us.</p>	<p>https://www.youtube.com/watch?v=_wGiUOp5g2s https://www.youtube.com/watch?v=59vLBetVMLY</p>

Q2: Display error when send a print job



<p>Step 1: Check the control panel if it is as shown at right pic. If not, press LEFT back to main interface, as right pic. Then resend the print job. If it is already the right pic, do Step 2.</p>	
<p>Step 2: Reconnect the USB cable, then restart the printer. If still exist a problem, contact us.</p>	



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