



# USER MAUNAL

of  
artisJet WORKSTATION

## About this file

Thank you for choosing artisJet and spending your valuable time on reading this manual.

The contents herein will guide you through the whole procedures of the initial setup and working process of the artisJet Workstation V5.0 (RC)-2023.

It is for all the printer operators involved in the production process. This file must be handed over to any operator if there is any position replacement.

Please follow all the steps instructed in this manual.

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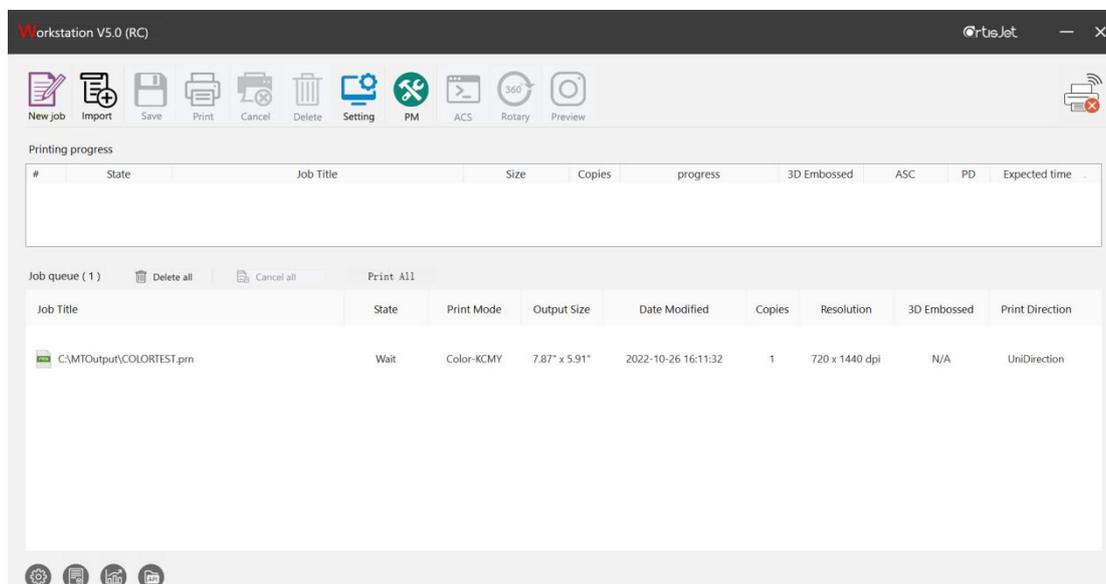
## PART 1. INTRODUCTION

This manual is for all the users working with artisJet latest products including artis 3000U Pro,5000U, Young and proV6.

The manual covers the instruction of Installation and working of artisJet workstation .

### Summary

*artisJet Workstation* is a printing task management and output system, which is used to manage all PRN format printing tasks and printing workflow output from RIP image processing software.



**Fig. 1 – Interface of artisJet Workflow Station**

With new workflow of artisJet Workstation, we can batch-import print task files in PRN format, which is a fancy name for a printer file, is a file that is automatically generated by a Postscript printer. We can easily add, delete, and cancel tasks and automatically capture task files that output from RIP Software. For batch reprinting, the number of printed copies can be easily defined by one key. The 3D option can directly convert the ordinary plane printing effect into embossed printing effect.

SUBJECT	COMPATIBILITY
The 3rd party software compatibility	Affinity Publisher, Adobe Photoshop, Adobe Illustrator, Corel Draw, Adobe Acrobat, AutoCAD, PowerPoint, Word and more
File format	PRN
Color mode (8 colors)	KCMY+KCMY KCMY+VVVV KCMY+WWWW WWWW+KCMY WW+KCMY+VV ❖ Customized ink channel setting is supported
Color mode (6 colors)	KCMY+WW KCMY+VV KCMY+ any 2 of CMYK(M&Y are equipped as default) ❖ Customized ink channel setting is supported ❖ Proud is not supported to print varnish
Printing modes	4PASS 8 PASS 16PASS
Printer model	artisJet Young artisJet 3000U pro artisJet 5000U artisJet Pro V6 <b>artisJet Proud (Dedicated version)</b>
Instruction system (ACS)	YES
Custom ink channel	YES
API interface	YES (HOT FOLDER, VIRTUAL PRINTER)
Supported Format	PDF, JPG, BMP, PNG, TIF, EPS
Hot folder & Virtual Print	YES

Fig. 2 – Features support and compatibility

## Featured Functions

- a) A customized API interface function added, available to quickly create a HOT FOLDER - based hot folder shortcut, and supports automatic work-flows for common format images such as PNG, JPG, TIF, BMP, EPS, PDF.
- b) Optimized AI design, which automatically adapts to full screen display at different displays resolutions.
- c) Multilingual interfaces added, users can obtain simplified Chinese, traditional Chinese, Spanish, English support through language options.
- d) Build-in encoding mold supports transferring the card data to database for matching.
- e) UV intelligent power saving mode, can effectively save more than 50% of the UV lamp consumption and heat emissions, thereby effectively reducing UV light reflection to increase the print head service life by 30% (this function requires hardware update support).
- f) Users can quickly switch the printer model to get support for artisJet Workstation.
- g) Print log statistics function is use to obtain a specific date of the device.
- h) Print job batch cancellation and batch deletion function is improving the flexibility of the heavy job under the task processing.
- i) PNG format workflow is supporting the identification of RGBA transparent channels.
- j) Support to send print tasks to task listing under preview dialog.
- k) artisJet Workstation allows users to use artisJet active inkjet estimation tools ICCV to estimate printed ink consumption costs from printing tasks.

## PART 2. INSTALLATION

The installation of artisJet Workstation is very fast and simple, and you can get the installation file through artisJet official service website: <http://www.artisJet.xyz>

Installing artisJet Workstation requires logging on to your computer using a computer account with administrator privileges.

artisJet Software Installation Wizard will guide you through the installation steps of the software.

## Supporting System

Windows 7	Windows 10	Windows 11
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>Recommended Configuration:</b></p> <ul style="list-style-type: none"> <li>• 2.2~3.8GHz Clock Speed</li> <li>• 4GB minimum RAM memory (8GB recommended)</li> <li>• 256GB minimum hard disk (512GB recommended)</li> <li>• 20GB minimum hard disk in C disk (100G is recommended)</li> </ul>		

## Language

The artisJet Workstation’s user interface is available in multiple supported languages: English, Spanish, Simplified Chinese and Traditional Chinese.

## Installation Steps

**Step 1** - Unfold the zipped file following the instructions, or download the Installation file from the website, then double-click the installation package file to install it.



**Step 2** - The installation wizard will pop up (Fig. 3). Click “Next” to continue the installation steps (Fig. 4). *Select the check box of “Create a desktop shortcut” is recommended.*

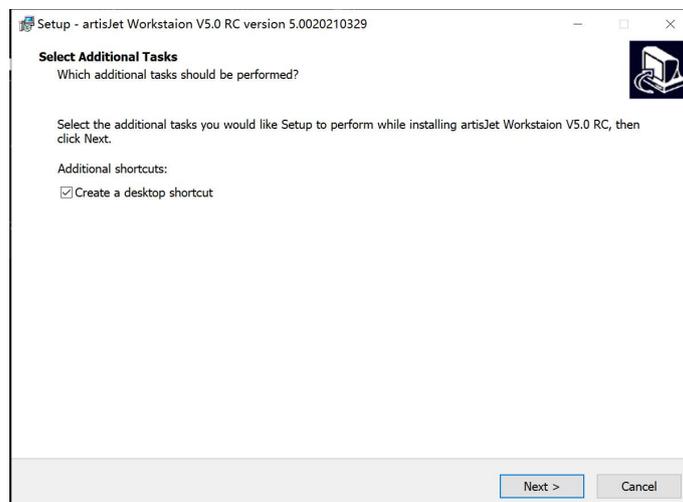


Fig. 3 – Installation wizard window

**Step 3** - Click the “Install” button to initialize the installation process (Fig. 4).

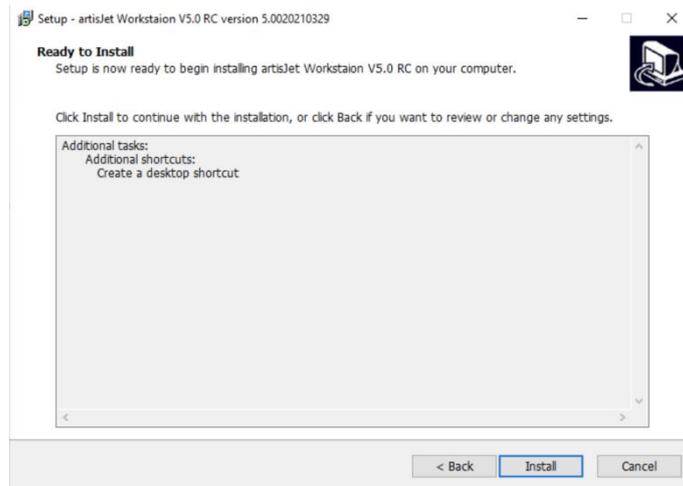


Fig.4 – Initialize installation process

**Step 4** – Click “Finish” to complete the installation process (Fig. 5). *Select the both check boxes on this page is recommended.*

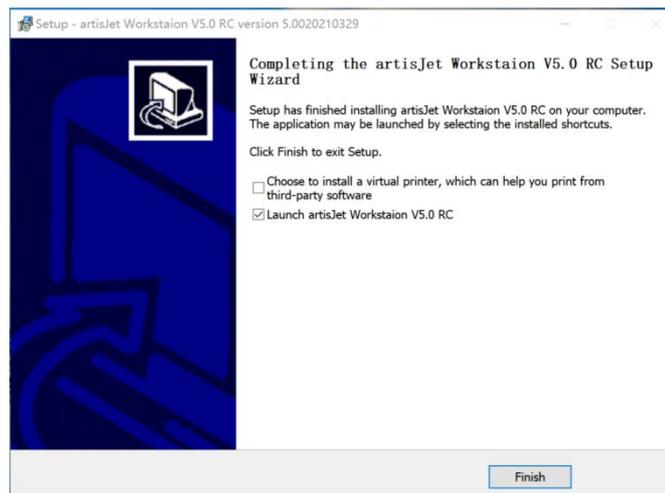


Fig. 5 – Complete the installation

**Step 5** – after installation, the shortcut with artisJet Workstation RC will appear on the desktop of PC; double click on the artisJet shortcut to run the software. You can also access the software project by clicking “Start” from the PC task bar and the clicking the artisJet Workstation Icon.

### The 3rd party software registration

The 3 party software integrated into artisJet Workstation needs to be download and registered from its official website.

### Uninstall

If you want to install the latest version, uninstall the old installation file first.

Click the uninstall wizard to uninstall (unins000.exe-which is in the installed folder).

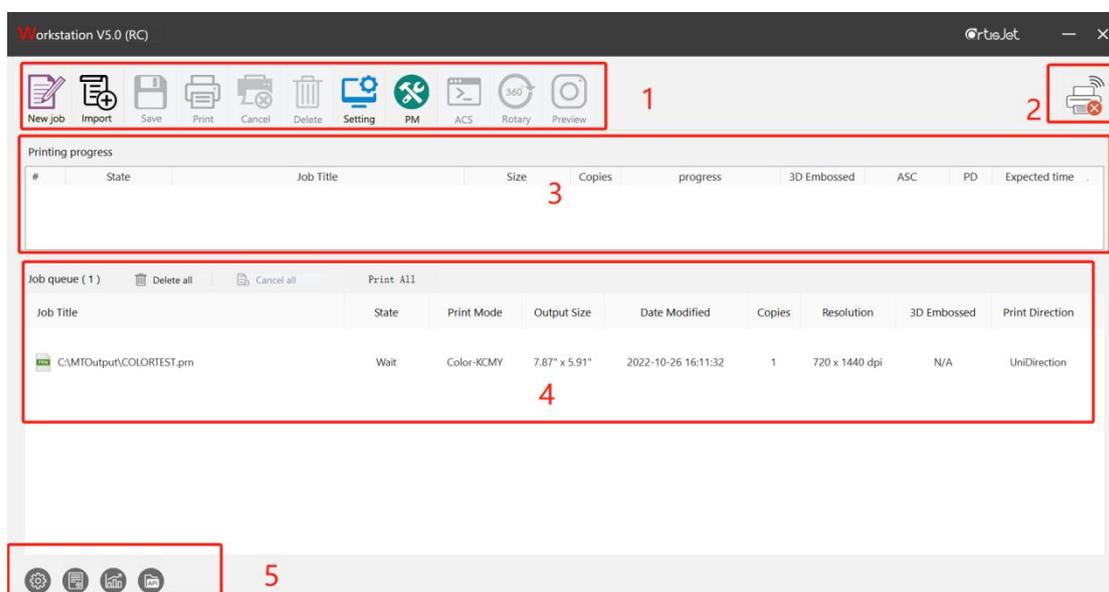
An “uninstall window” will pop up to confirm or cancel the removal of the artisJet Workstation old version.



## PART 3. START USING THE WORKSTATION

### User Interface

Before using artisJet Workstation, please read the following instructions carefully to know the functions and operations guide of each button.



No.1 area in the upper left corner is the functional area, which can help you complete the import, printing, and various settings that are needed in printing.

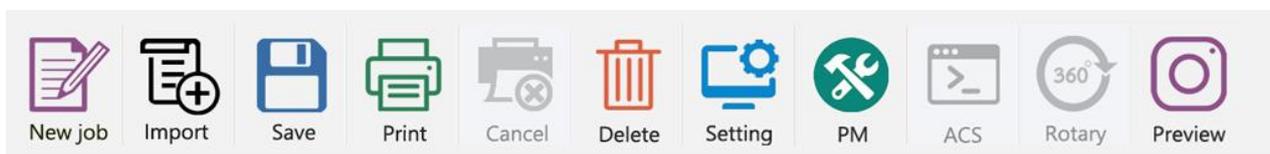
No.2 area in the upper right corner is the connection status between the PC and the printer (disconnected or connected). The print task and instructions can only be sent to the printer when connected.

No.3 Printing progress is the print job area. And the tasks in this area will be sent to the printer for printing.

No.4 Job queue is a printable task queue area. In this area, you can make various settings for printing tasks, including the number of copies to be printed, uni-direction and bi-direction settings; Braille printing settings.

No.5 in lower left corner is a high-level and auxiliary function setting area, including print history task list browsing, printing device model selection, language settings, print log statistics, custom API interface settings.

### Functional Area



 New job	<p>Left click it to start and open RIP editing software. In RIP software you can typeset pictures and text, and generate print tasks to task list.</p>
 Import	<p>The “Import” function is used to print the task file saved or backed up by the customer. It is suitable for repeated production of the same print matter and pattern. At the same time, it can also meet the confidentiality and security of customer image files. Select the path of the file and choose PRN file, you can import up to 500 files at a time. PRN file path can be on PC hard disk and USB storage.(Fig. 7)</p>
 Save	<p>Click to transfer or back up print tasks to any location. It is easy to backup and store print files.(Fig. 8)</p>
 Print	<p>Select tasks in the <b>Job queue</b> that needs to be printed, and then click this button. Tasks will be sent to the <b>Printing progress</b> list for printing.(Fig. 9)</p>
 Cancel	<p>Cancels any tasks that have not started printing. If you want to cancel tasks during printing, you can click the “Cancel” button on the printer’s control</p>

	panel.
	Used to delete tasks in a queue.
	Click to access the settings features / settings dialog box.(Fig. 10)  <i>*Some of the setting options are not available for PROUD.</i>
	Printer Maintenance.(Fig. 11)
	This button can be clicked after a task was selected in the print queue.(Fig. 12)
	360 ° Rotary is used for printing on rotary model like bottle where need printing on 360 °.(Fig.15)
	Job Preview – it shows the print job summary (print mode, print resolution, last update, print direction) (Fig.14)

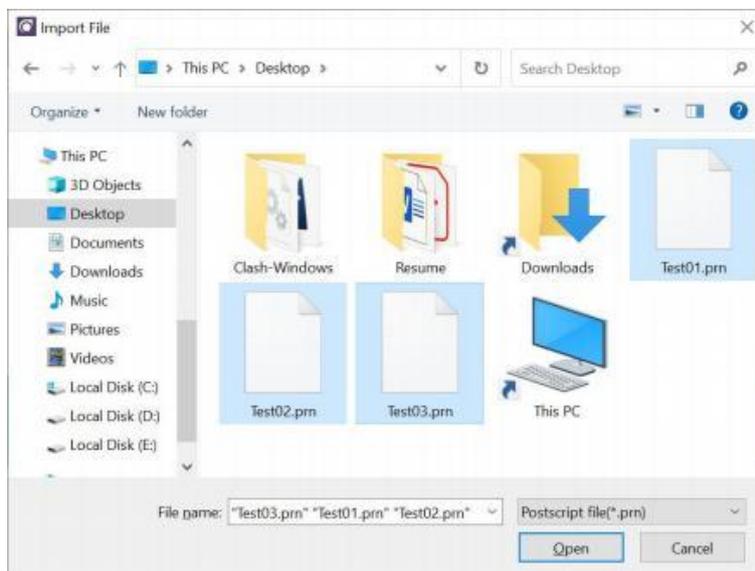


Fig. 7 – Import file

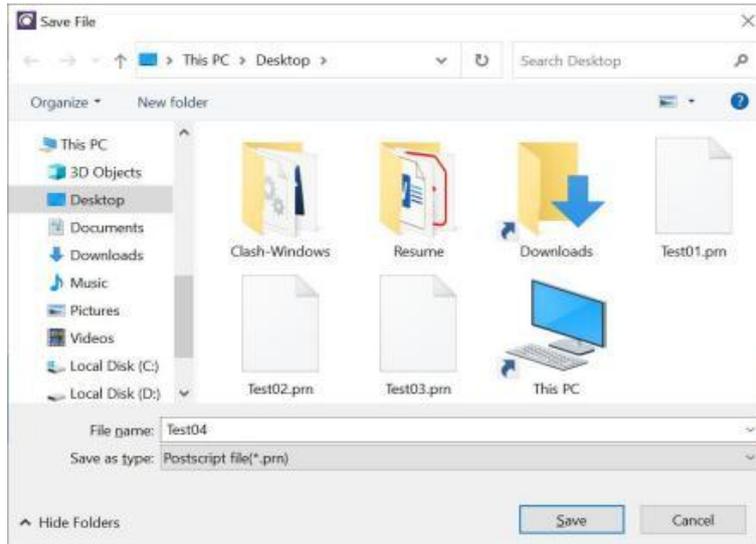


Fig. 8 – Save file

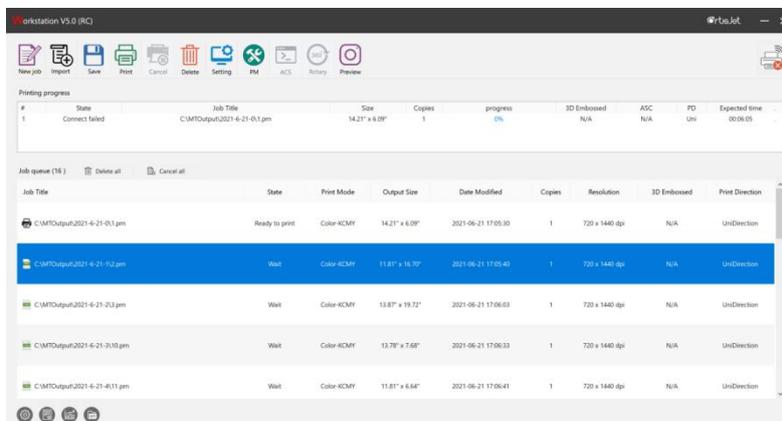


Fig. 9 – Printing task

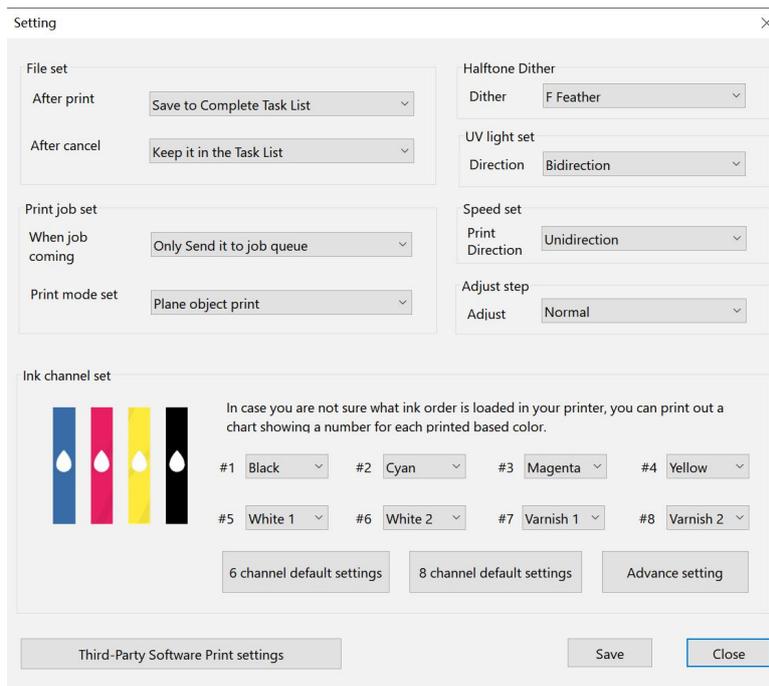
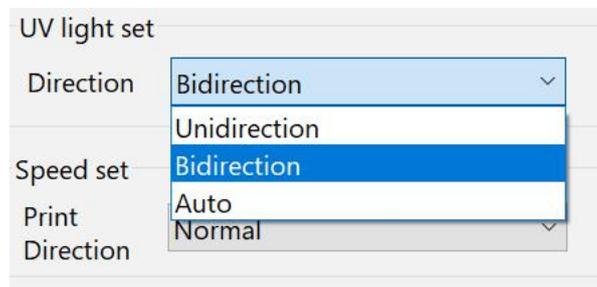


Fig. 10 – Settings dialog box (detailed explanations in the below points “a” to “i”)

- a. After print- choose to back up the print file or clear the print file after the print task is finished
- b. After cancel- choose to clear the print file or keep the print file in the work queue when the print job is canceled during printing process
- c. When job coming --- Allow new job tasks added directly into the print queue for printing or only to be added to the job queue
- d. Halftone dither--- PASS marks and Banding can be effectively reduced by feather. So the printing results can be smoother. Feather will reduce printing speed. F-Feather has the slowest printing speed but the smoothest effect. In general, S-Feather is suitable for lines, text-based patterns. M-Feather is suitable for figures, patterns with more color changes. F-Feather is suitable for solid color or dark pattern printing.
- e. UV Light Set - UV lamp direction setting.

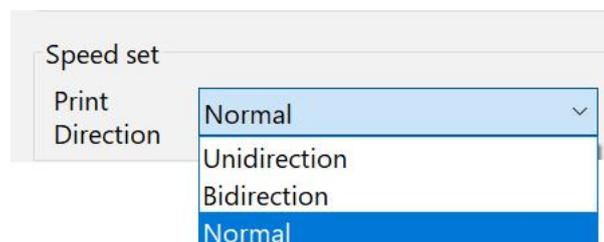


**Auto Settings** - when the print job is bidirectional, UV lamp will be on whether printing to the left or right. When the print job is unidirectional, the UV lamp will light up when printing to the left.

**Uni direction** - the UV lamp will light up when you print to the left.

**Bi direction** - the UV lamp will light up when you print both to the right and left.

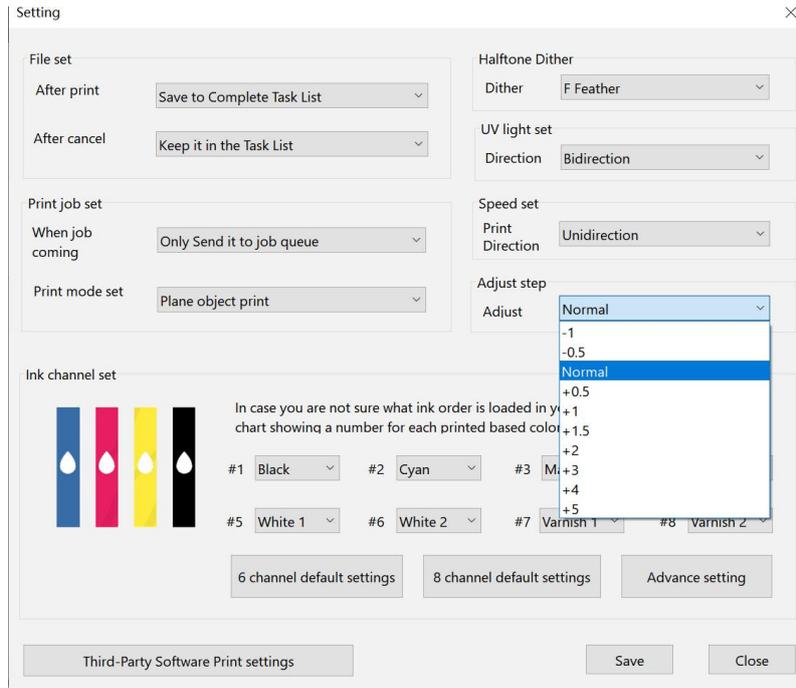
- f. **Print Direction** - Print speed settings



**Normal setting** - printing direction will be the default printing direction.

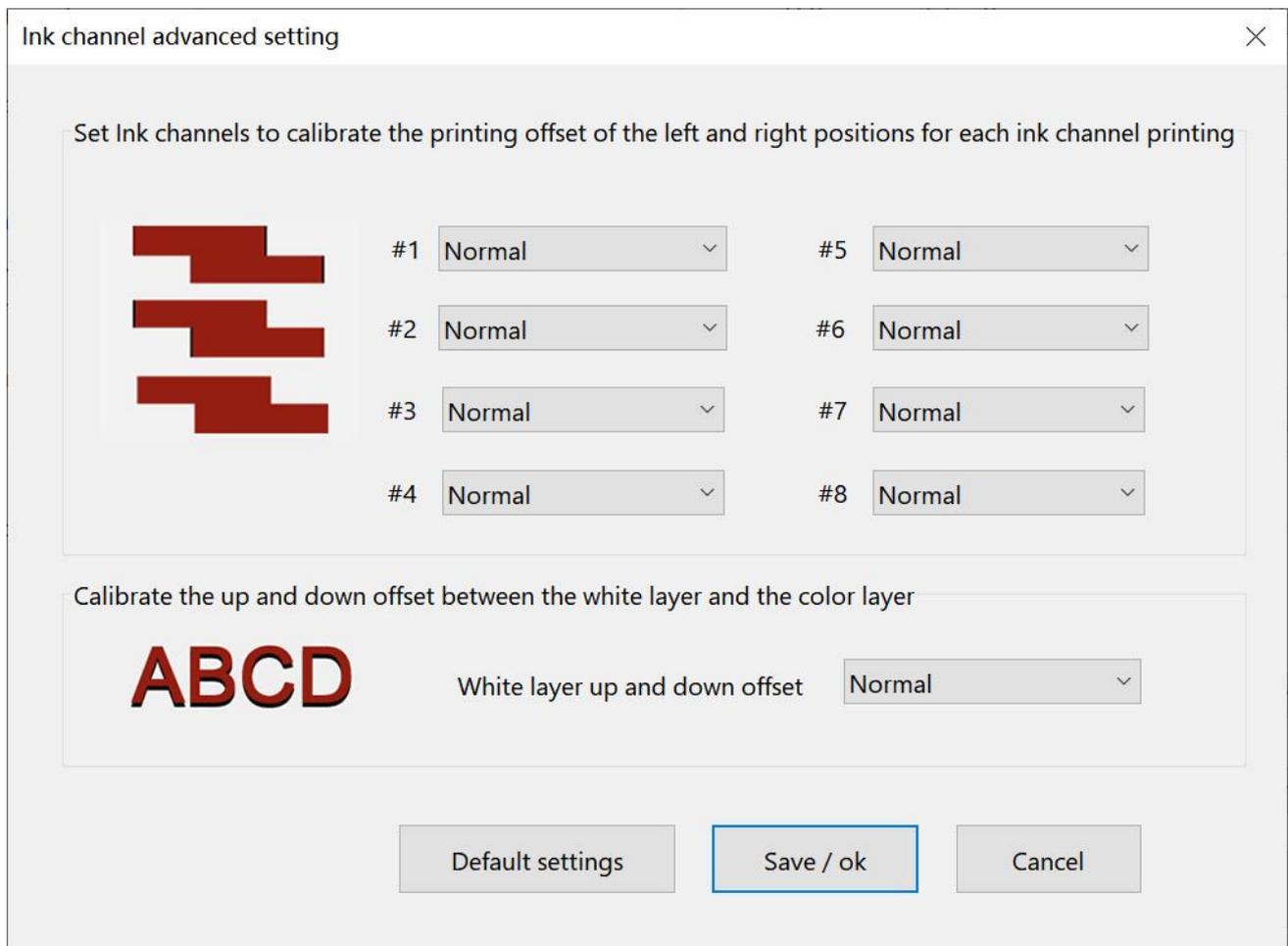
**Uni direction/ Bi direction setting** - printing direction will be the same as the setting. You can also set the print direction for each print task in the job queue separately.

- g. **Step adjust** – Adjust the Y step accuracy on demand to minimize the error in transmissions.



**h. Advance setting- Ink jet position setting**

Adjust the inkjet position of individual colors or white ink to achieve the most accurate ink coverage



**i. Ink Channel Set- Ink order setting**

The default ink channel settings of artisJet 8 colors printer are: KCMYWWVV / KCMYWWWW

#1	Black	#2	Cyan	#3	Magenta	#4	Yellow
#5	White 1	#6	White 2	#7	Varnish 1	#8	Varnish 2

The default ink channel setting of artisJet 6 colors printer is: WKCMYW

#1	NULL	#2	White 2	#3	Black	#4	Cyan
#5	Magenta	#6	Yellow	#7	White 1	#8	NULL

Of course, you can customize the ink channel according to the actual installation of the cartridge and the colors order from the actual nozzle check. For example, the first nozzle prints yellow, and #1 is set to Yellow.

The nozzle can be turned off when the channel is set to NULL. For example, the nozzle of Yellow 2 is clogged. In order not to affect the print quality, you can choose to close Yellow 2 and just use Yellow 1.

**Ink channel set**

In case you are not sure what ink order is loaded in your printer, you can print out a chart showing a number for each printed based color.

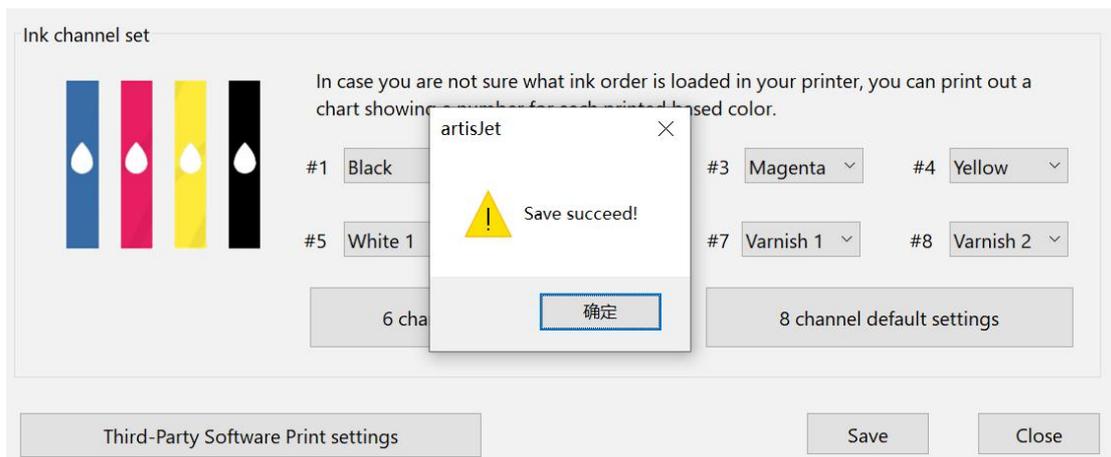
#1	Yellow	#2	White 1	#3	Black	#4	Cyan
#5	Magenta	#6	Yellow	#7	White 2	#8	NULL

6 channel default settings      8 channel default settings

Click the **Restore the default settings button** to restore the factory ink order setting.

6 channel default settings      8 channel default settings

Click the **save button** to save all changes. Click the cancel button to exit the print settings.



### Printer maintenance (PM) dialog box details

In the maintenance dialog box, there are Nozzle Check, Head Cleaning, Ink Charging, and Service Restart functions. All functions can be performed when the PC is connected to the printer properly.

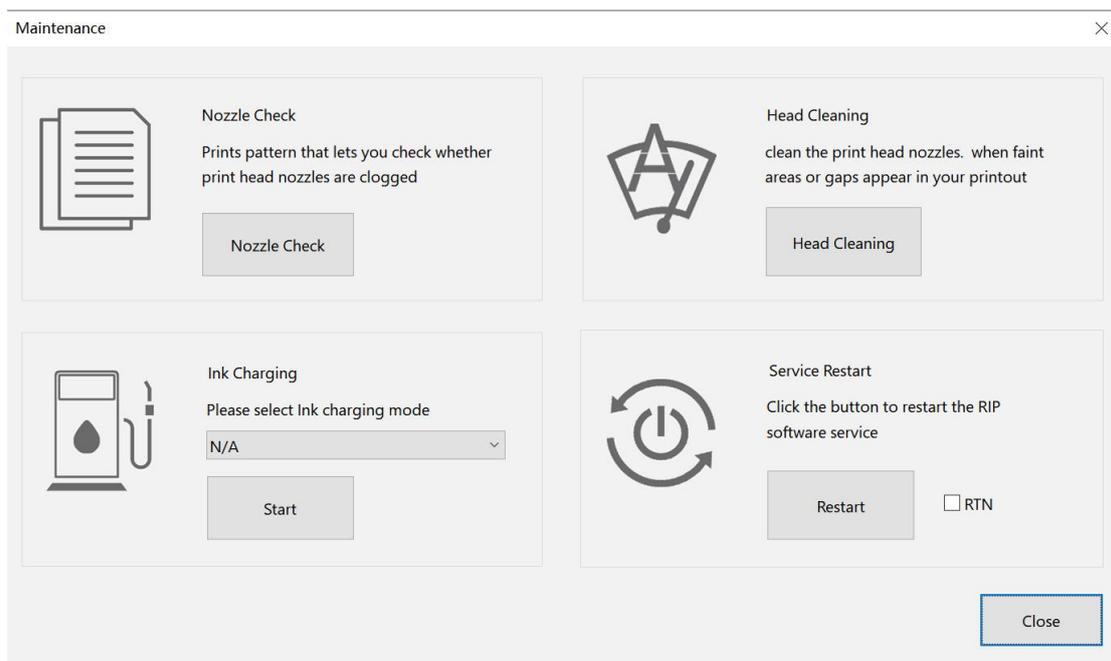
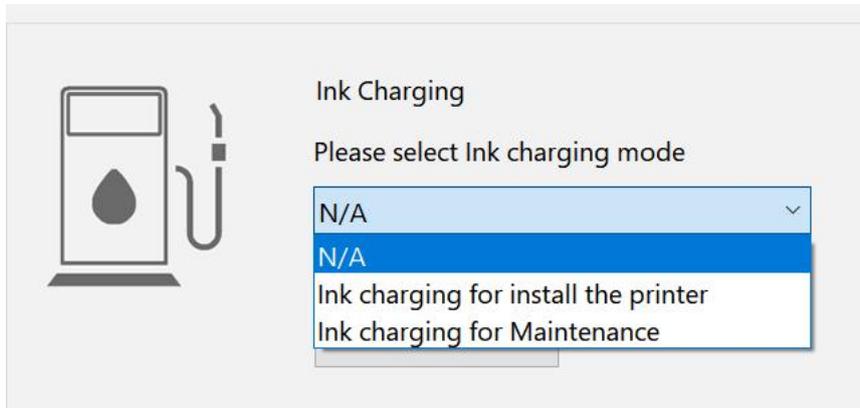


Fig. 11 – Printer Maintenance dialog box

**New Machine Install** takes 6-7 minutes to execute. During execution, the printer control screen will show Cleaning. Please wait patiently and do not turn off the printer power throughout the process. When the printer screen displays printer ready, you need to print test strip for nozzle verification. New Machine Install and other related functions are only auxiliary functions, which cannot guarantee the success of ink guide with one take. After completing the ink guide, if the

nozzle test bar is not ideal or there is no printing ink, you can press the PUMP / SPI and CLEAN buttons on control panel to continue the ink installation process.



### artisJet Command System (ACS) details

At present, there are two instructions, "platform return to origin instruction" and "platform return to origin and adjust print height automatically instruction", for customers to choose. Select the desired instruction and click the OK / Save button, which will be inserted at the end of the print task. The instruction will be sent to the printer automatically after the print task is finished.

For complex embossed effect, Braille, image mixing and other printing tasks which needs multiple printing task, you just need to set once by ACS and can be completed at one time without manual intervention, which greatly saves the labor cost.

At the same time, for customers with system integration, ACS can play an important role in unattended pipeline printing.

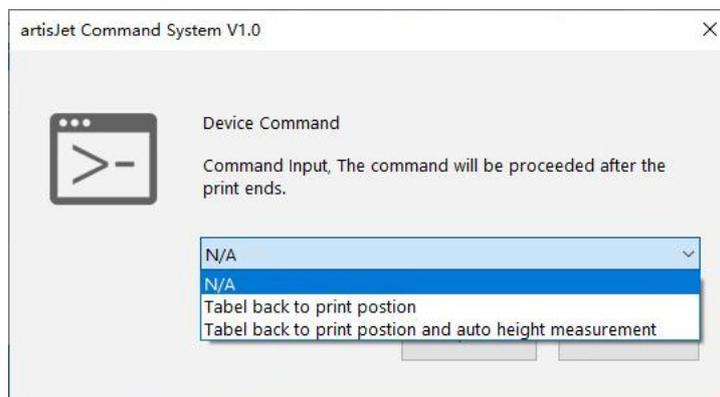


Fig. 12 – ACS Function

### Preview of all jobs

It shows the print job summary (print mode, print resolution, last update, print direction). Click the print button in the preview dialog box to directly send the preview task to the print task list.

**Attention:** Preview is the real final effect of the printing task(s), it may be different from the preview result on WINDOWS or other professional tools as artis RIP's data process, such as Adobe Photo shop, PDF, AI and others.

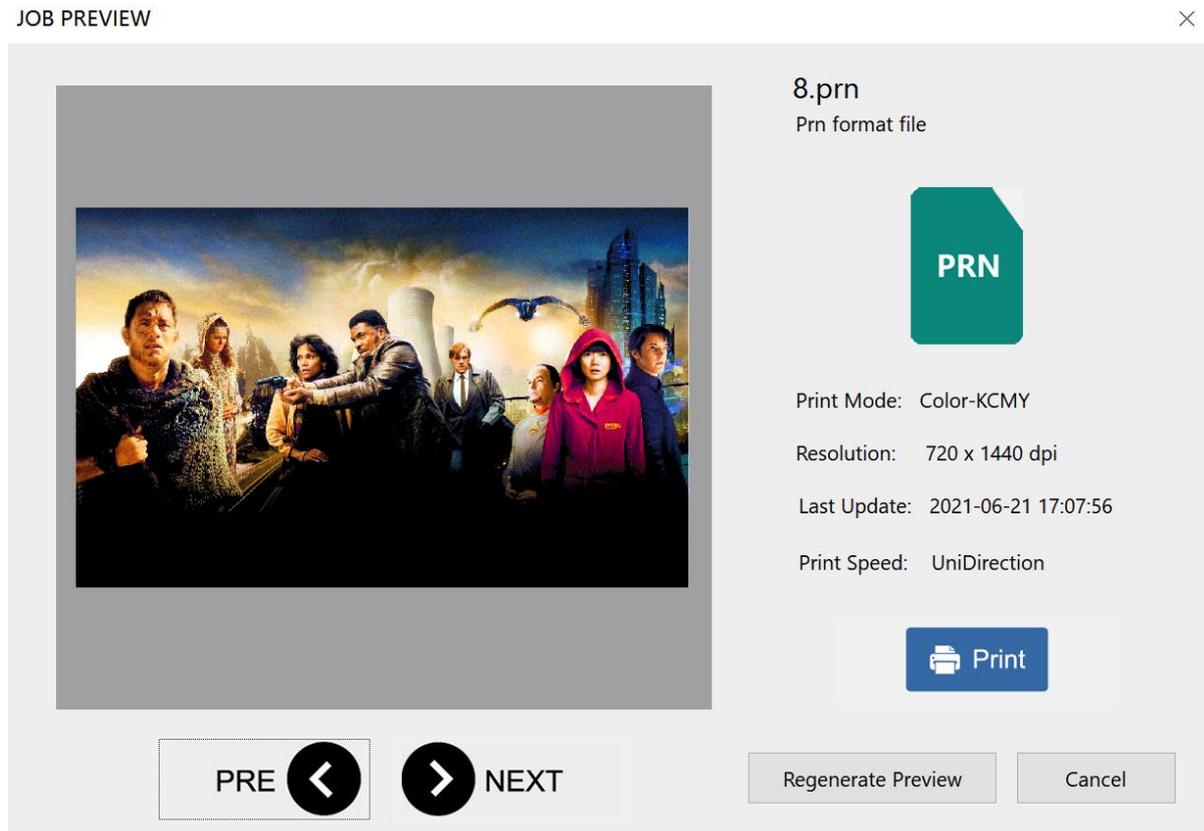


Fig.14 -Preview of job

### Integrated ROT-360 print

The Rotary Print function will be activated once the “360 rotary print” mode is selected. The printer will print in rotary transmission, make sure the ROT-360 attachment is correctly connected and loaded onto the working table of the printer.

After using, set the print mode to be Flat object print from Print mode set option.

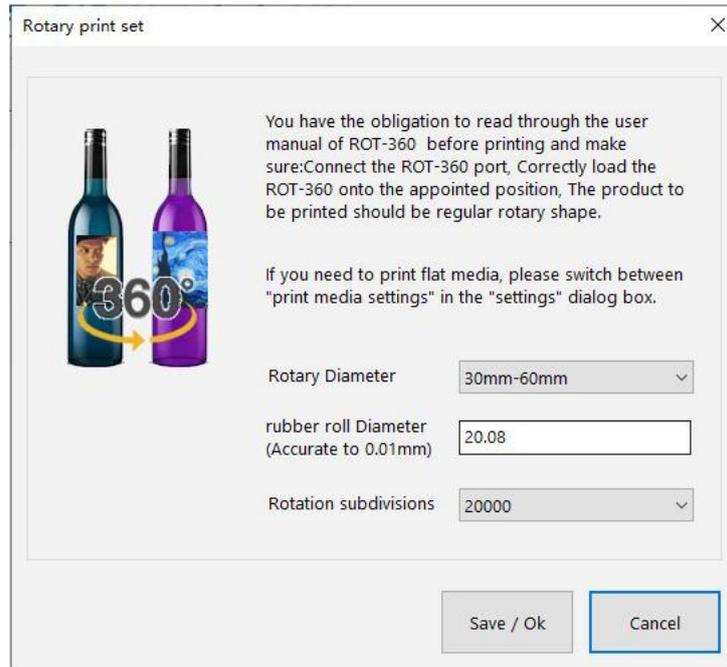


Fig15. – Rotary Print Set window

## Connection Status

Turn on the printer power and make sure the printer is connected with the USB cable of the pc. When the connection state located in the upper right corner shows Connected, the printer is connected with the artisJet workstation successfully and can print as usual.



When the connection status in the upper right corner shows Connect failed, printer failed to connect with the artisJet workstation. Please check the data cable connection, power supply, and the printer USB driver installation.



## Printing Progress

Printing progress displays the task being printed and the task queue to be printed. The window is as follows:

#	State	Job Title	Size	Copies	progress	3D Embossed	ASC	PD	Expected time
1	Printing	C:\MTO\put\untitled_014\untitled.pm	7.87" x 7.87"	1	<div style="width: 50%; background-color: #4CAF50;"></div>	N/A	YMoveB	Uni	00:02:45
2	Ready to print	C:\MTO\put\untitled_015\untitled.pm	7.87" x 7.87"	1	0%	N/A	N/A	Uni	N/A

Print task queue status bar:

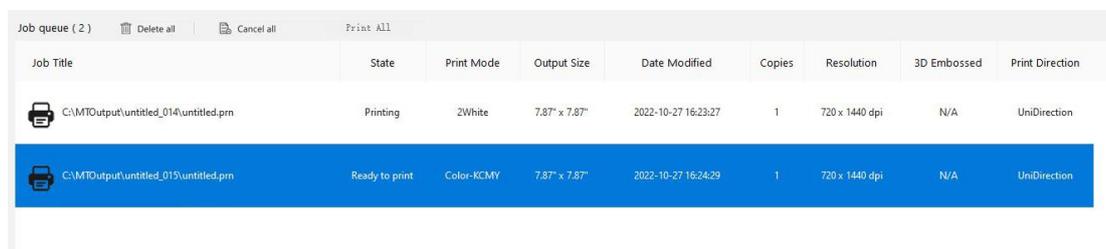
#	State
1	Connect failed
2	Ready to print

**Connect failed** - The connection to the printer failed or was disconnected. And the print task cannot be performed.

**Ready to print**-The task has been sent to the Printing progress list and is waiting to print.

**Printing** - Task printing.

**Media / Table out** - Printer platform does not return to the origin. The print task will be send after returning. The task will be cleared from the task queue list when the print is complete.



Job Title	State	Print Mode	Output Size	Date Modified	Copies	Resolution	3D Embossed	Print Direction
C:\MTOutput\untitled_014\untitled.prn	Printing	2White	7.87" x 7.87"	2022-10-27 16:23:27	1	720 x 1440 dpi	N/A	UniDirection
C:\MTOutput\untitled_015\untitled.prn	Ready to print	Color-KCMY	7.87" x 7.87"	2022-10-27 16:24:29	1	720 x 1440 dpi	N/A	UniDirection

Select the tasks in the Job queue that need to be printed and click button, the task will be sent to the Printing progress list for printing. The meaning of the display text in the status bar:

**Ready to print** - the task has been sent to the Printing progress list and is waiting to print.

**Printing**- The task is being printed.

**Wait** - The task can be sent to the print list.

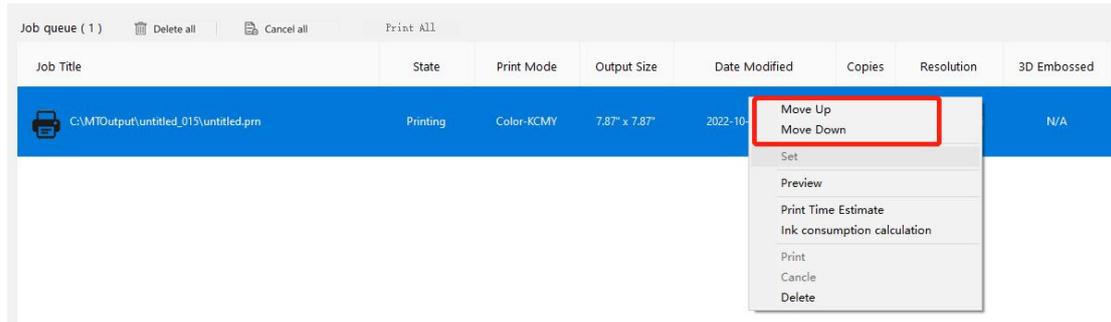
**Generating data** - The task file is being generated.

**Error** - The task file does not meet the printing criteria, which exceeds the printer's maximum print size or is in an error format.

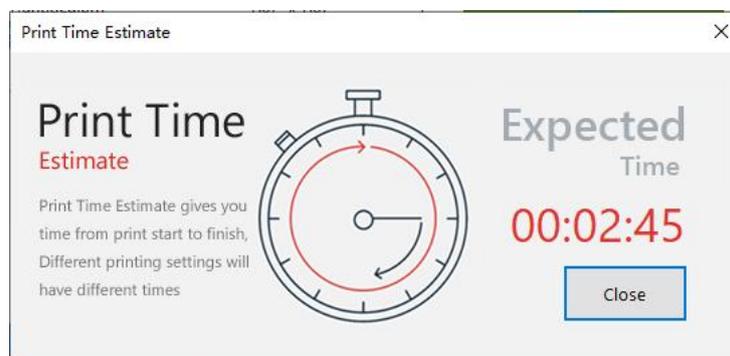


artisJet workstation allows users to delete and clear all tasks in the work queue through shortcut buttons, and cancel all tasks in the print column.

**Attention:** You can click Cancel button in Functional area to cancel tasks which status is Ready to print(selecting the task is needed). If you want to cancel tasks which status is Printing, please select the tasks and click the cancel button on the Control Panel. Right-click a task in the work queue for quick setting.



**Move up and Move Down** are used to adjust the position and order of tasks in the list. By clicking on the **Set** button will pop up the task settings dialog box. You can set copies, 3D embossed effect, print direction and other properties in this dialog box.



**Print time estimate** – to scientifically manage the time to complete the print job.

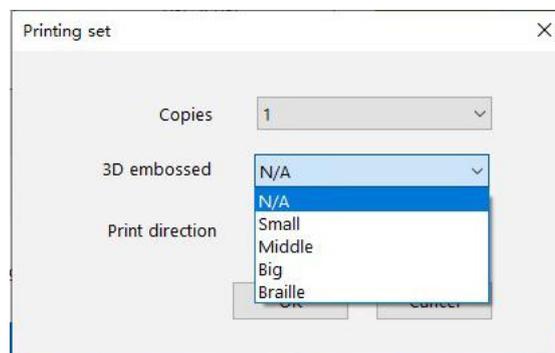
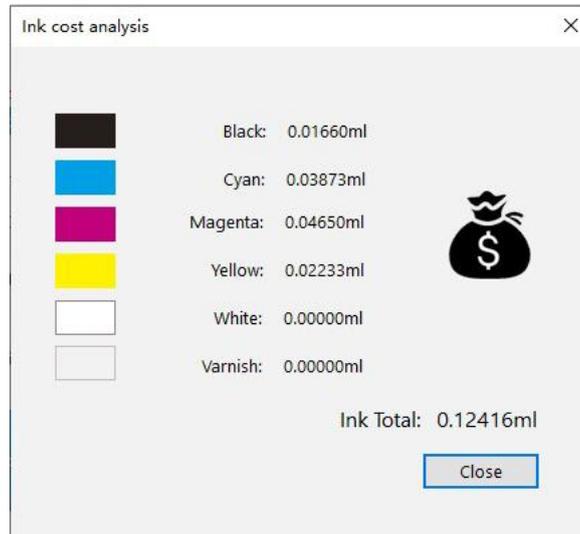


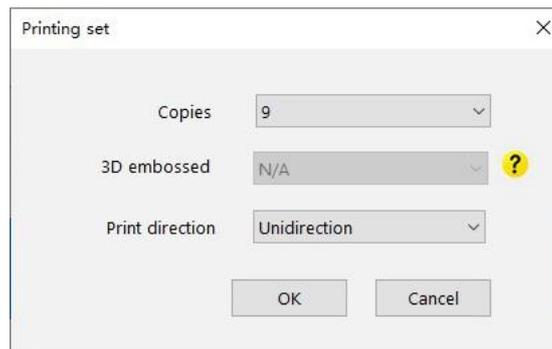
Fig. – Print effects setup window from

**Copies** - Sets the repetition of the task to print multiple times without the need to regenerate the task  
**3D embossed** - It used to print 3D embossed and braille. Choose the Braille option when you need to output a Braille dot pattern as a task. **Small, Middle, Big** correspond to 3D embossed effect, representing the thickness of white ink being stacked. The thickness of Small is the smallest and that of Big is the thickest. If the BIG printing result cannot reach the expected thickness, the printing thickness can be increased by setting Copies to print repeatedly.

**Ink consumption calculation**– artisJet workstation allows users to use artisJet's active inkjet estimating tool iccv to estimate the amount of inkjet for printing tasks, so as to count the cost of printing ink consumption.



**Task set** – artisJet workstation allows users to set the single task copies and printing direction for custom demand of each task.



### Advanced and Accessibility Settings

**Advanced and auxiliary function** setting area, including browsing of print history task list, printing device model selection, language setting, printing statistics log, custom API interface setting.

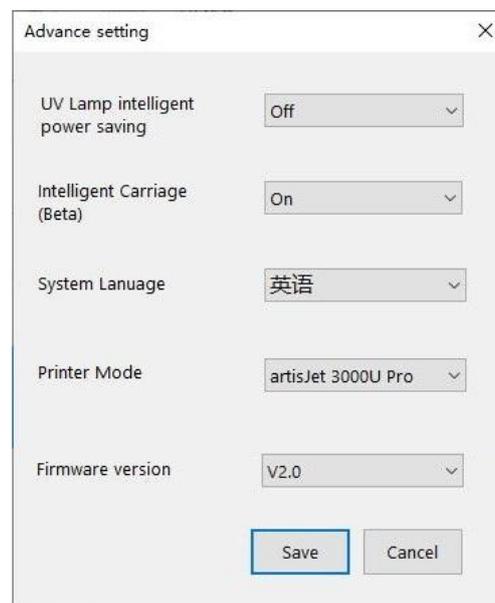
-  Advanced Settings
-  Finished Printing Task Management
-  Print Statistics Log
-  Custom API interface
-  Icloud Setting
-  Icloud Task List

### Advanced settings

The advanced setting function allows the user to turn on the UV lamp power-saving function, the smart Carriage function, select the language, and select the device model.

artisJet applies an unique data algorithm to drive the UV curing module with inkjet data to accurately illuminate the effective position of the inkjet, which can reduce the power consumption of the UV curing unit by 60% and reduce the risk of nozzle blockage caused by UV light reflection.

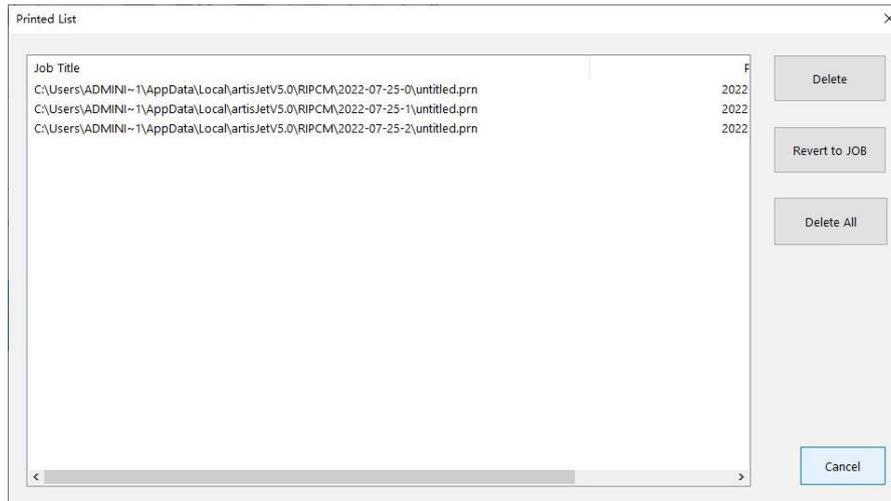
The smart carriage function is a test version, not as a standard configuration, only open to certain users.



## Finished Printing Task Management

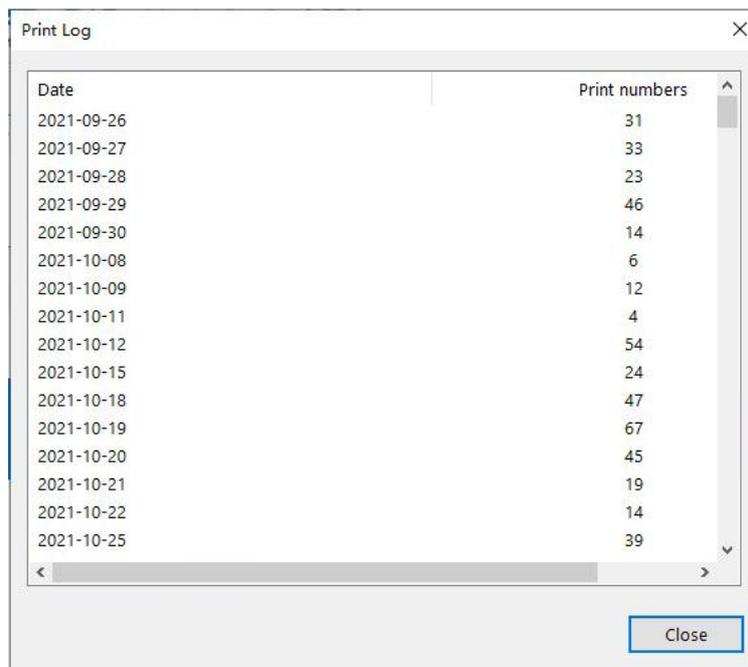
artisJet workstation allows users to view and manage the job files that have been printed, and allows users to restore historical print jobs from the print completion list.

You need to turn on the save option of the print job in the print settings. Save print job data will consume a lot of disk space, you can turn off file saving in the print settings or clean up the backup print data regularly.



**Print Statistics Log:**

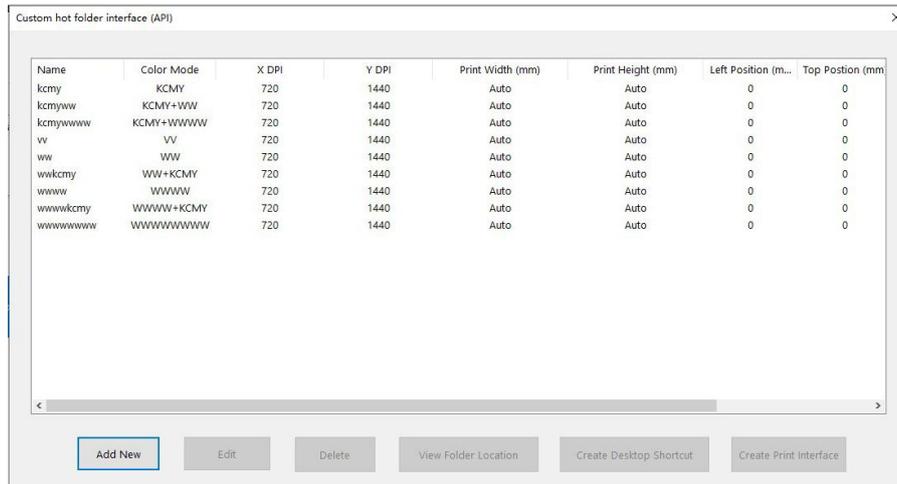
The print statistics log is used to record and count the usage information of the printer and the print volume of the device.



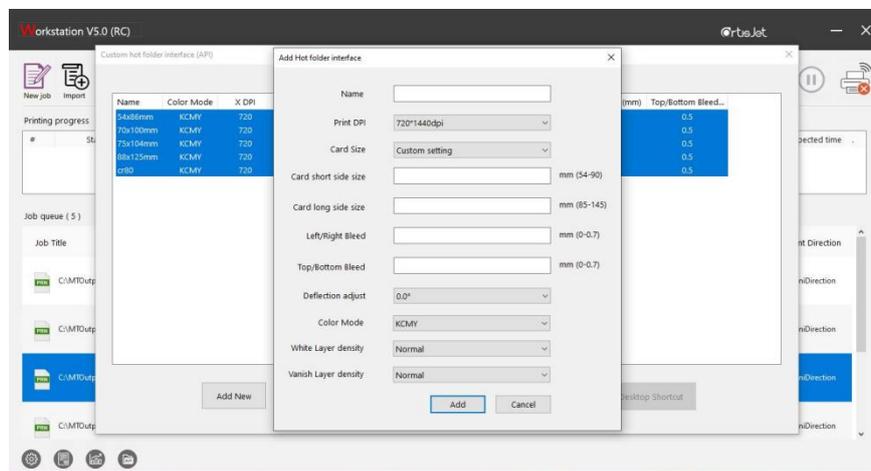
**Custom API interface:**

**Universal application:**

The image interface of artisJet workstation is based on the HOT FOLDER method widely used in the printing industry. Users can flexibly create and define the print settings of the hot folder accordingly to the printing needs. The user can use any method to print the image files that need to be printed. Load files into the defined hot folder , the internal work flow of artisJet workstation will automatically scan the images in the hot folder with theirs defined settings of the hot folder, and automatically complete the entire work from the image to the print task file Process.



Universal Version



Dedicated application(for Proud)

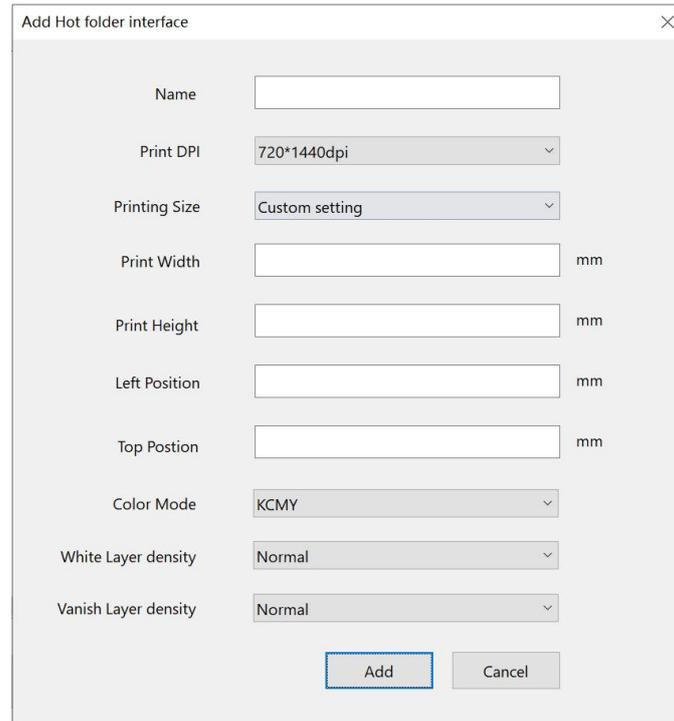
## Further Explanation about Hot Folder

### 1. Supported Formats

The image format that Hot Folder supports png (RGB, RGBA) | Jpg | Tif | Eps | Pdf | Bmp.

### 2. Create/ Edit interface

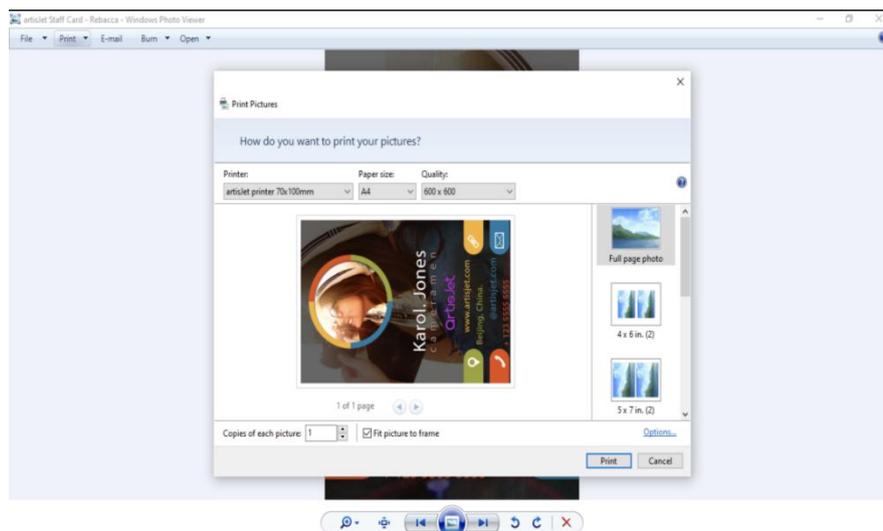
You can quickly create an interface directory based on hot folder by clicking the ADD NEW button, select the API list item, and click the edit button to change the relevant settings of the interface directory.



### 3. Interface Method

#### A. The 1st method: Universal printing interface method- *Virtual Printer*.

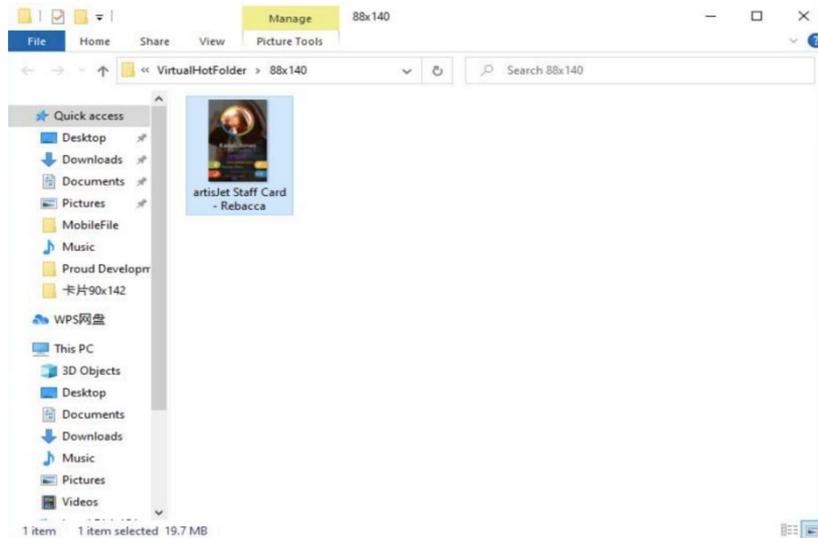
After the installation of artisJet workstation, the software will automatically create a universal printer driver. The user can use any third-party software that supports printing options for direct print output. It is suitable for users who use third-party design software to print directly after the design is completed.



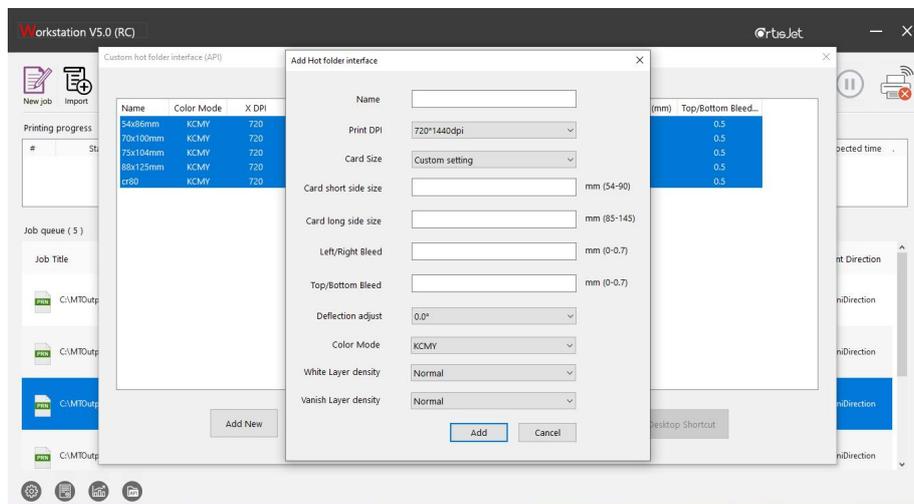
#### B. The 2nd method: Universal hot folder interface mode.

After the installation of artisJet workstation V5.0, the software will automatically create standard universal hot folders (the users can also create hot folder customized-see: C. The 3rd method: Customize hot folder interface mode), then the users can create the shortcuts to the desktop.

The user needs to put the pictures that need to be printed into the hot folder or its shortcuts. The work flow inside artisJet workstation V5.0 it will automatically read the picture and create a print task by the built-in artis RIP. The image information includes (image pixels, image physical width, image physical height, image resolution). This method is suitable for users who automatically generate print tasks for batch images.



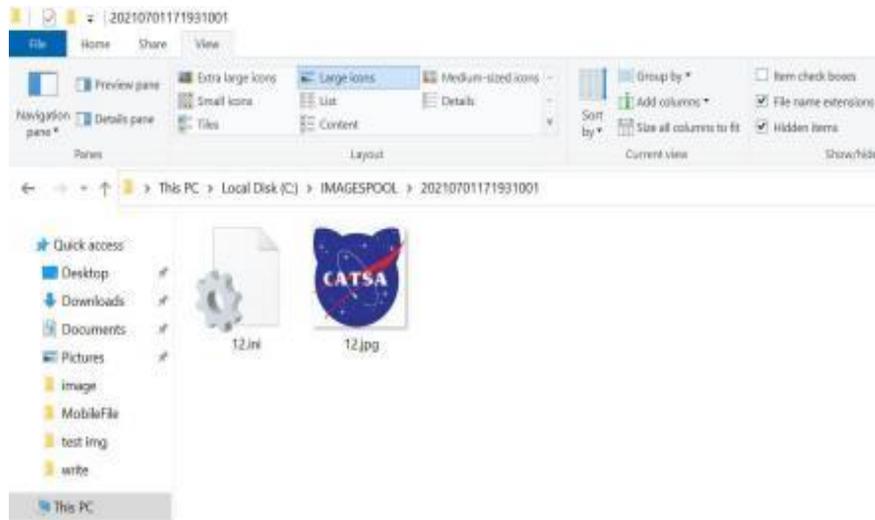
**C. The 3rd method: Customize hot folder interface mode.**



artisJet workstation is open and allows users to customize the hot folder interface. The definitions include but are not limited to fixed print output width, fixed print output height, automatic recognition of print width and height according to the image, folder name, print output resolution, Print left margin, print top margin, print color mode (color, white, white+color, etc.), white layer thickness. This method is suitable for remote printing, mobile terminal customization and network customization and order-taking users.

**D. The 4th method : Advanced Interface Mode**

This method allows users to dynamically and flexibly perform different print settings for each print image. Users can create flexible print settings by creating "images" + "image print description files" into the hot folder.



Description of image setting interface file ".ini"

```

12.ini - Notepad
File Edit Format View Help
173.799500
167.513000
720
1440
0
0
5
0
0
0
0
0
0
0
0.000000
0.000000
XXX0008900121
Testname
1

```

## Icloud

The functionality provided by artisJet includes online cloud-based transmission, storage, and generation of product designs.

### Icloud Setting

The cloud account and password are used to connect and accept design printing tasks.

Icloud setting ✕

The artisJet Icloud interface will help you complete local printing of images from remote and internet sources. For detailed usage, please read the "artisJet Icloud SDK"

Enable remote and internet printing API

Interface information settings

Request URL

Verification required (TokenID)

TokenID

### Icloud Task List

All historical tasks from the cloud within the last 3 days are automatically saved, whether they have been printed or not. Tasks older than 3 days will be automatically deleted.

You can preview and re-download historical tasks to the workstation.

Icloud Task List ✕

Order No	Create date	Product name	Download State	Print State
00001	2023-10-17 09:51	MAC Liquid Lip	Downloaded	Not Printed
00002	2023-10-17 09:51	Hyper real Serumizer	Downloaded	Not Printed
00003	2023-10-17 09:52	Hyper Real Skincanvas Balm	Downloaded	Not Printed