ARTISJET WORKSTATION V5.0 (proud)
SOFTWARE USER MANUAL

2021

ABOUT THIS FILE

Thank you for 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 (proud).

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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INTRODUCTION

1 Overview

artisJet Work Station is a printing task management and output system, which is used to manage the printing tasks from both the graphic process module (build-in RIP) and variable data module [both build-in(optional) and 3rd party are supported]. For output managing, it defines the work-flow.
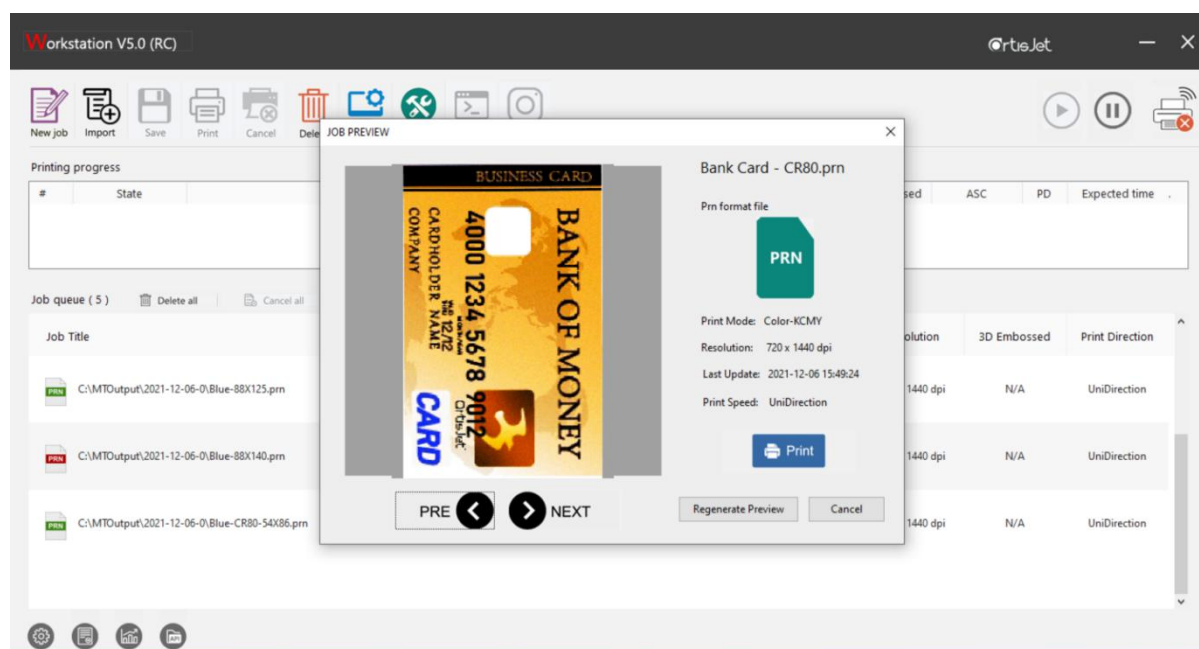

Fig. 1 – Screen from artisJet Workstation V5.0 (PROUD)

With new work-flow of artisJet Workstation, we can batch-import print task files in PostScript (PRN) format, saved by users or designers. We can easily add, delete, and cancel tasks and automatically capture task files that output from Variable Data Printing (VDP) Software and other professional Card Printing Software. For batch reprinting, the number of printed copies can be easily defined by one key.

With ACS instruction system, the encoding system exchanging the data in the database. This technology greatly reduces the time of manual operation.

Open API interface mode to achieve more printing possibilities.

File format	PRN
3rd part Software	Affinity Publisher, Adobe Photoshop, Adobe Illustrator, Corel Draw, Adobe Acrobat, AutoCAD, PowerPoint,
Color mode	KCMY / KCMY + 2Z
Printer model	artisJet proud
Instruction system (ACS)	YES
Custom ink channel	YES
API interface	YES (HOT FOLDER)
Custom API interface	YES (HOT FOLDER)
Automatically Image Workflow	PDF, JPG, BMP, PNG, TIF, EPS

Fig. 2 – Features support and compatibility

2 New Functions

ABOUT NEW FUNCTIONS:

This version is an upgraded version from V4.0 and the new functions are developed based on actual demands of users.

a. A customized API interface function added, available to quickly create a HOT FOULDER - 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. Users can quickly switch the printer model to get support for artisJet Workstation V5.0.

d. Multilingual interfaces added, users can obtain simplified Chinese, traditional Chinese, Spanish, English support through language options.

e. Build-in encoding mold supports transferring the card data to database for matching.

f. 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)

g. Print log statistics function is added to obtain a specific date of the device.

h. Print job batch cancellation and batch deletion function is added, improving the flexibility of the heavy job under the task processing.

i. Printing task cancellation under printing function is added, and retains the "Cancel" button from the device, making human machine interaction more flexible.

j. PNG format workflow is added, supporting the identification of RGBA transparent channels.

k. Support to send print tasks to task listing under preview dialog.

l. artisJet Workstation V5.0 allows users to use artisJet active inkjet estimation tools ICCV to estimate printed ink consumption costs from printing tasks.

3   Installation

The installation of artisJet Workstation is very fast and simple, and you can get the installation file through the following channels:

a. **When purchasing software or equipment -** it is obtained in a randomly configured USB installation package;

b. **Download from 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 take you through the installation steps of the software.

4   Supported System

Windows 8.1	Windows 10
✅	✅
• Intel® 2.4GHz Core i5 7th gen processor, or AMD Athlon® 3.0GHz with 64bit support • 4GB minimum RAM memory (8GB recommended) • 256GB minimum hard disk (512GB recommended) • 100GB minimum hard disk in C disk is recommended	

5 Language

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

artisJet®
amaze those you value

6 Installation Steps

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

artisJet
Workstaion
V5.0 RC.exe

Step 2 - The installation wizard will pop up (Fig. 3). Please click "Next" to continue the installation steps and procedures (Fig. 4).
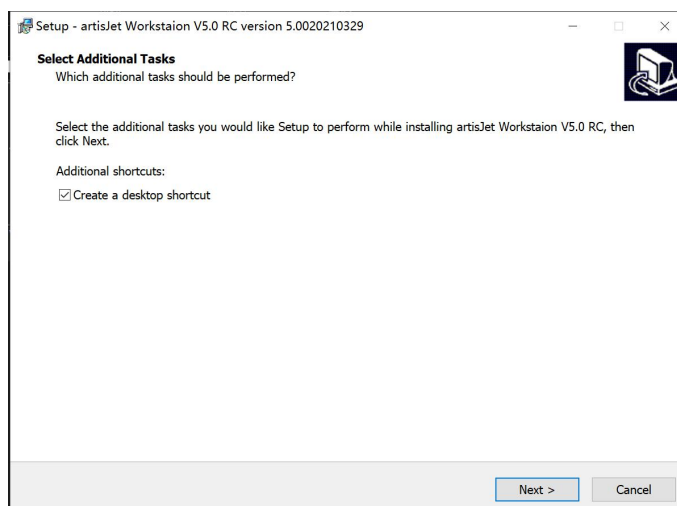
Fig. 3 – Installation wizard window

Step 3 - Click the "Install" button to initialize the installation process (Fig. 4).
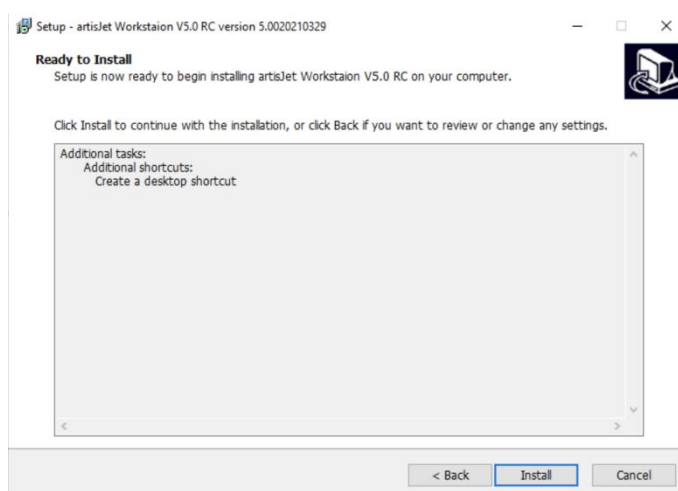
Fig.4 – Initialize installation process

Step 4 – Click "Finish" to complete the installation process (Fig. 5).
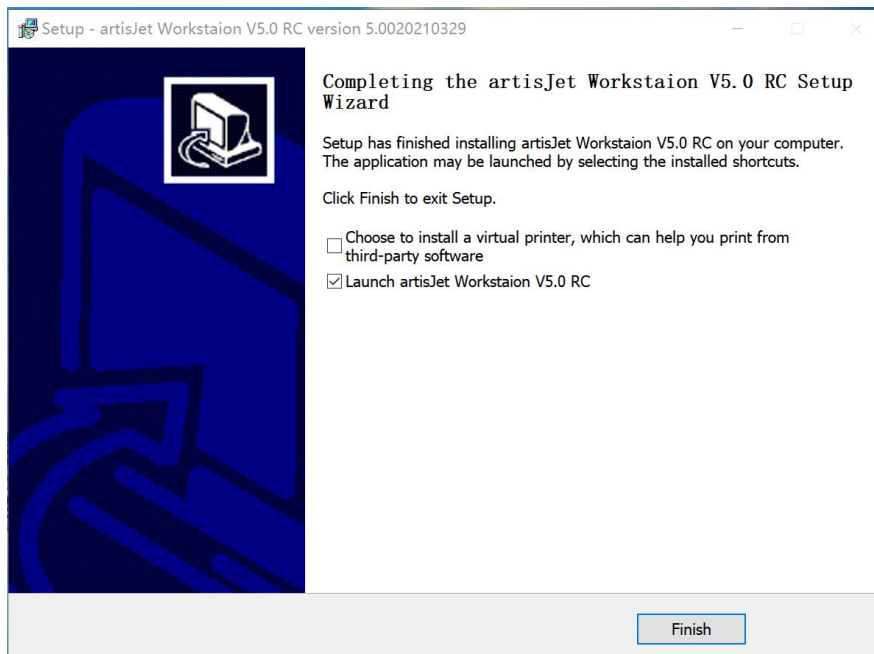
Fig. 5 – Complete the installation

Step 5 – after installation, the shortcut with artisJet Workstation V5.0 RC will appear on the desktop of PC; 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 all.

7

Uninstall

Uninstall

If you want to install the latest version, uninstall the old installation file first.
Click the uninstall wizard to uninstall (unins000.exe).

unins000.exe

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

artisJet Workstaion V5.0 RC Uninstall   ✕

?   Are you sure you want to completely remove artisJet Workstaion
     V5.0 RC and all of its components?

                                        YES   NO

START USING THE WORKSTATION

1

User Interface

Before using artisJet Workstation, please read the following instructions carefully to know the functions and operations guide of each button.
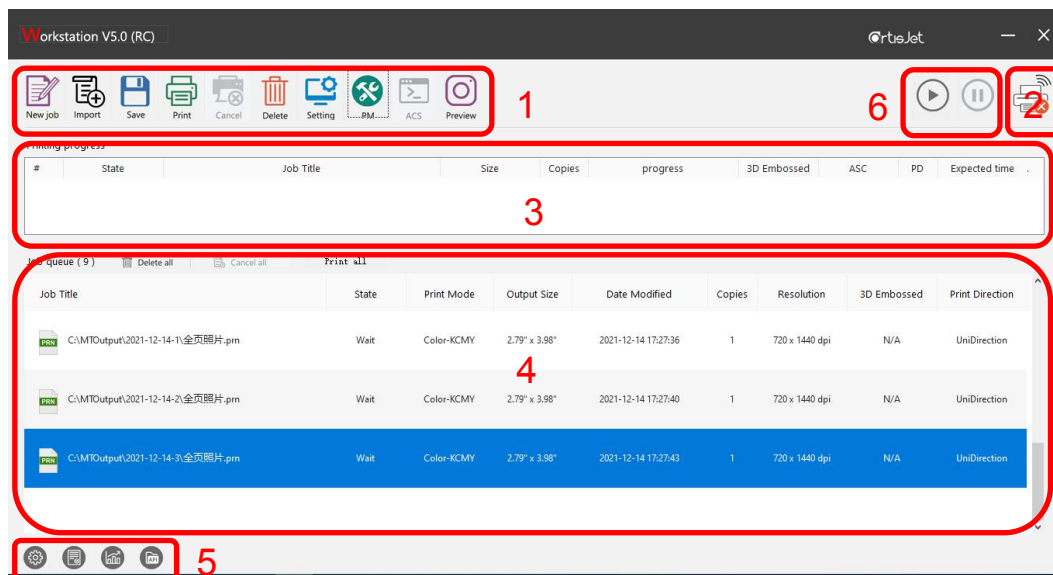
Fig. 6 – artisJet Workstation interface (main tabs)

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, unidirection and bidirection 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.

No.6 in the upper middle right corner is START/STOP button, they are for starting and pausing the printing task.

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2 Functional Area

|	
New job	Double 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.
Import	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).
Save	Click to transfer or back up print tasks to any location. It is easy to backup and store print files (Fig.8).
Print	Select tasks in the Job queue that needs to be printed, and then click this button. Tasks will be sent to the Printing progress list for printing (Fig. 9).
Cancel	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 panel.
Delete	Used to delete tasks in a queue.
Setting	Click to access the settings features / settings dialog box (Fig. 10).
PM	Printer Maintenance (Fig. 11).
ACS	This button can be clicked after a task was selected in the print queue (Fig. 12).
Preview	Job Preview – it shows the print job summary (print mode, print resolution, last update, print direction)
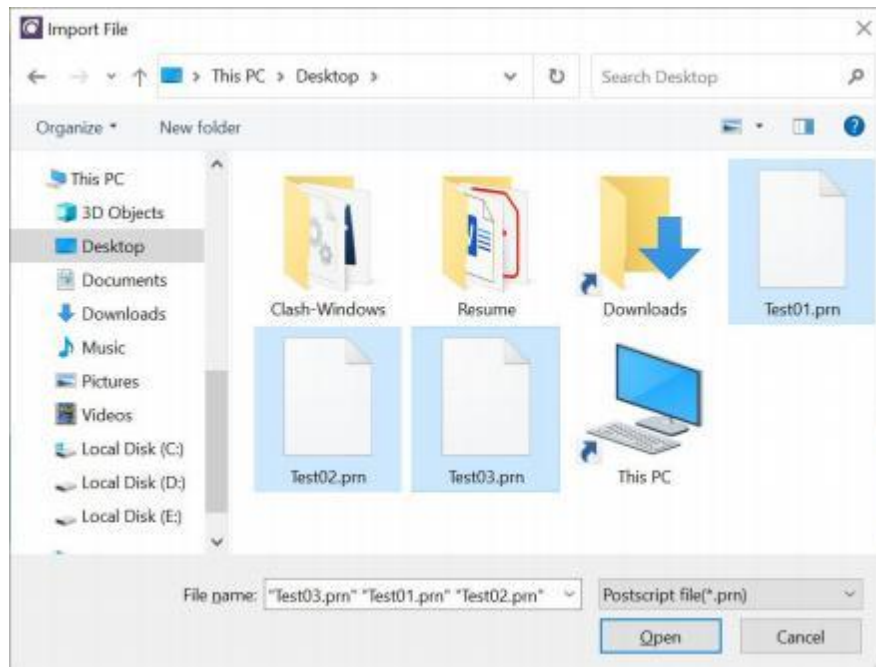
Fig. 7 – Import file
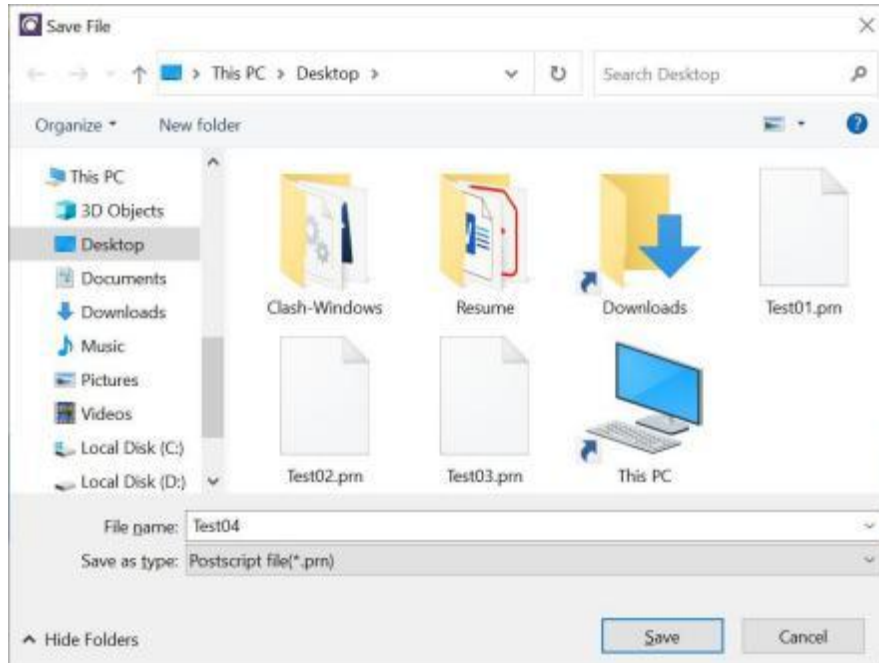
Fig. 8 – Save file
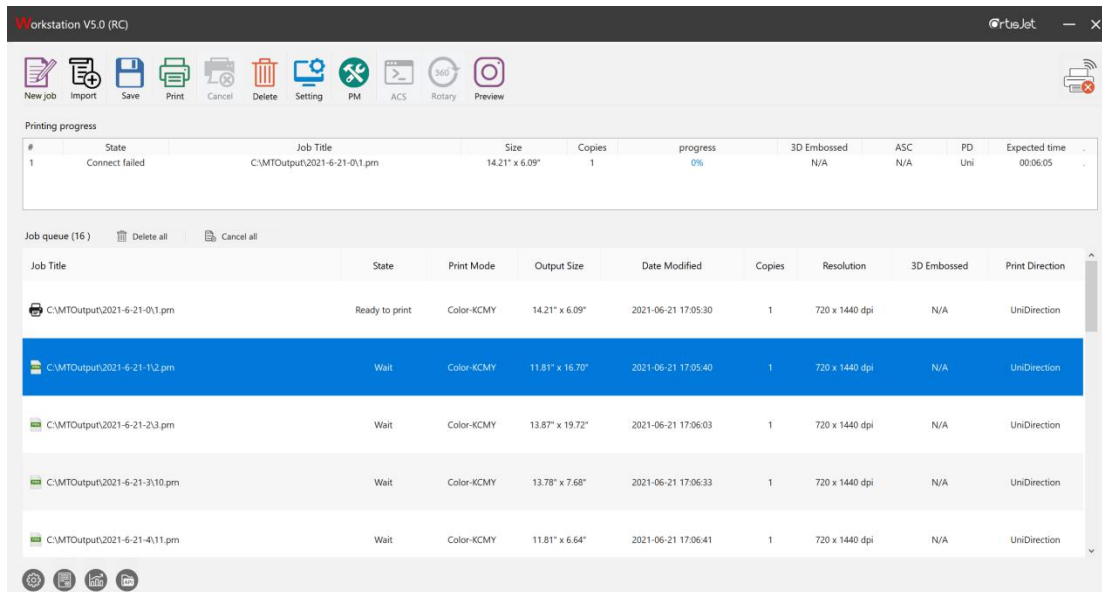
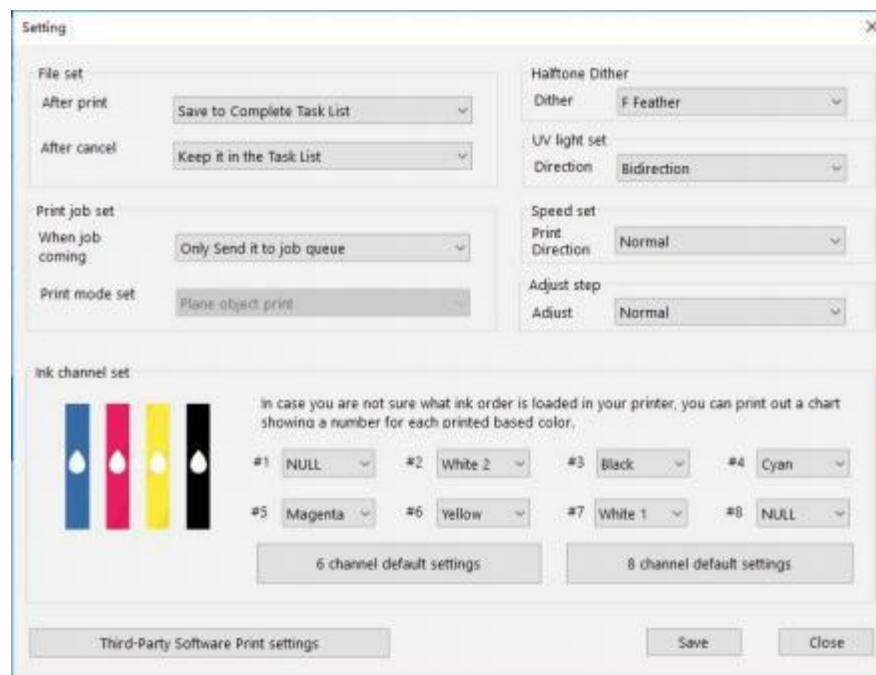Fig. 9 – Printing task

Settings dialog box details

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.

Unidirection - the UV lamp will light up when you print to the left.

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

f. Print Direction - Print speed settings
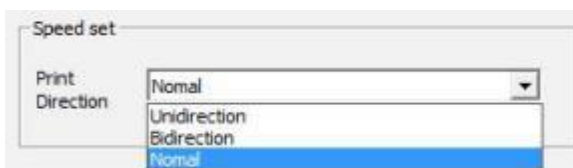
Normal setting - printing direction will be the default printing direction.
Unidirection/ Bidirection setting - printing direction will be the same as the setting. You can also set the print direction for each print task in the job queue separately.

g. Step adjust – Adjust the Y step accuracy on demand to minimize the error in transmissions.
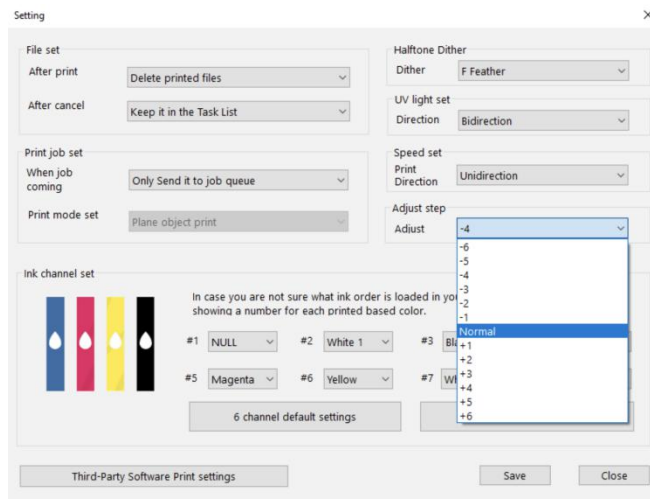
h. Ink Channel Set- Ink order setting
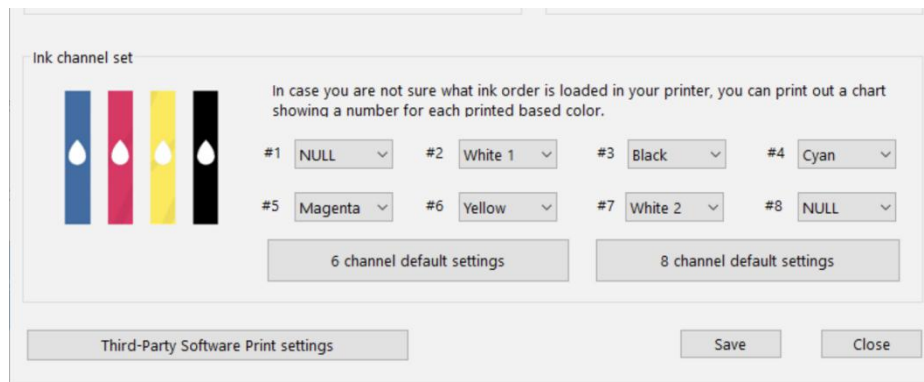
The ink channel settings depend on the printer's default ink order setting, and the recommended default ink order for artis proud is MKCMYY.

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.

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

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.
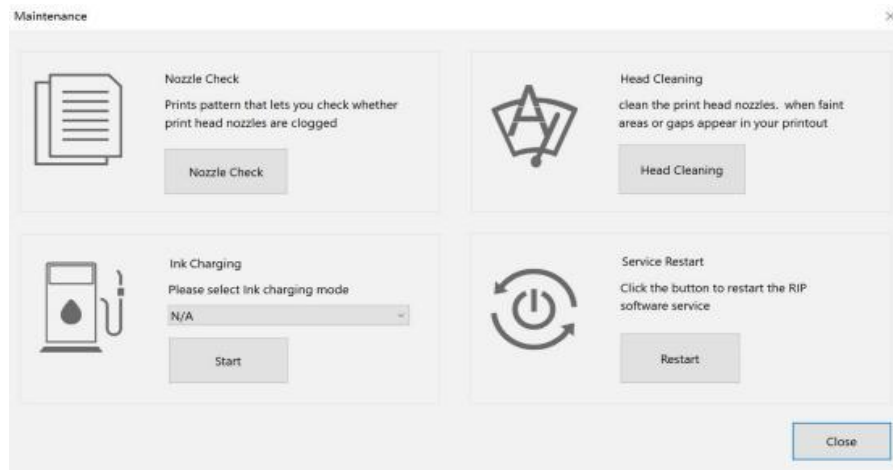

Fig. 11 – Printer Maintenance dialog box

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.
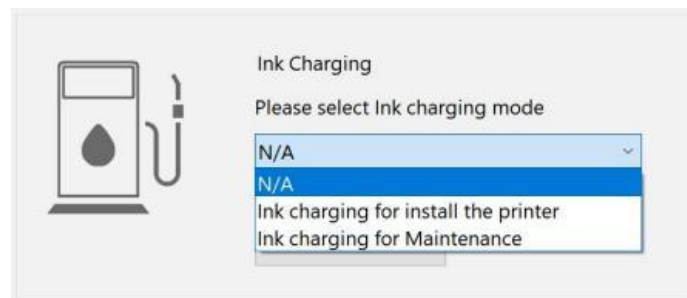
artisJet Command System (ACS) details

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.
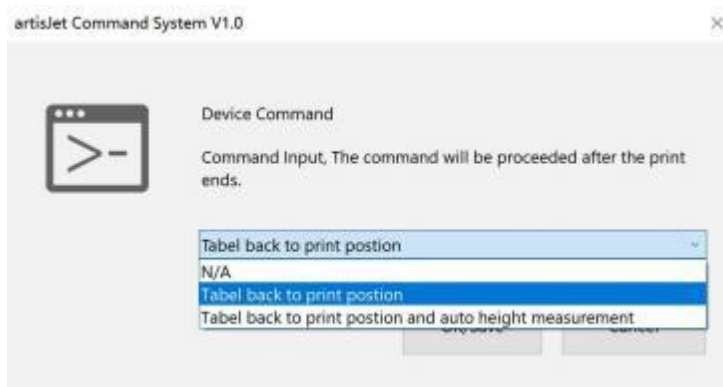

Fig. 12 – ACS Function

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
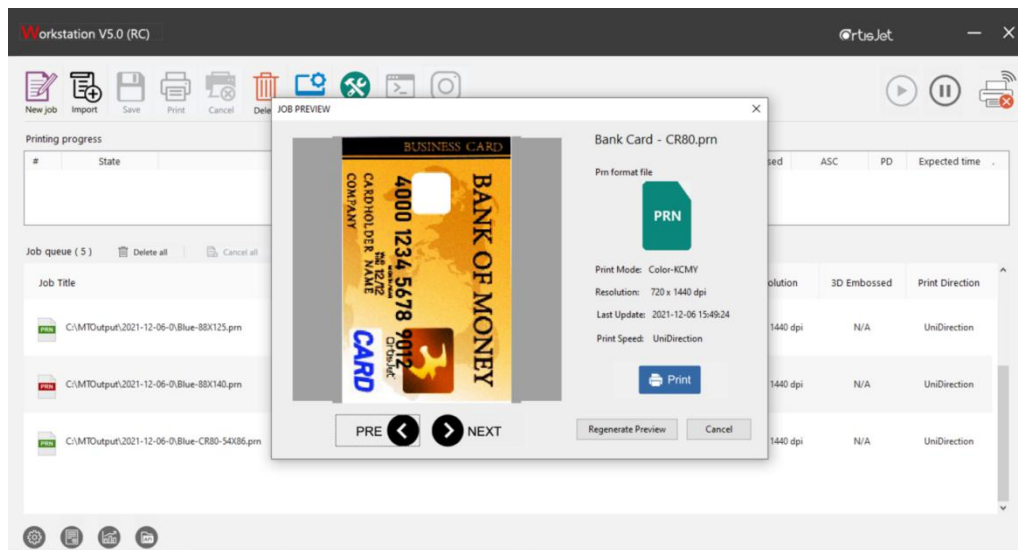print task list.

Fig. 14 – Job Preview window

3 **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.

4

Printing Progress

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

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.

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.

5 Job Queue

Select the tasks in the Job queue that need to be printed and click **Print** 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.

Compared with artisJet workstaion V4.0, artisJet workstation V5.0 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. If you want to cancel tasks which status is Printing, please click the cancel button on the Control Panel. Right-click a task in the work queue to find the context menu:

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.
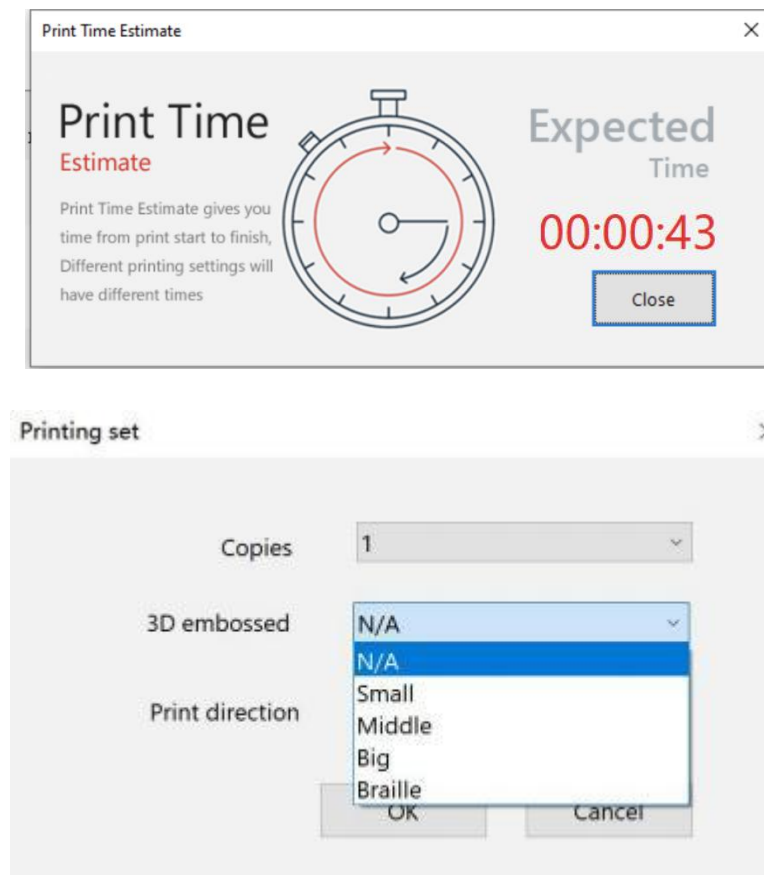

Fig. 15 – Print effects setup window from

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 calulation– artisJet workstaion V5.0 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.
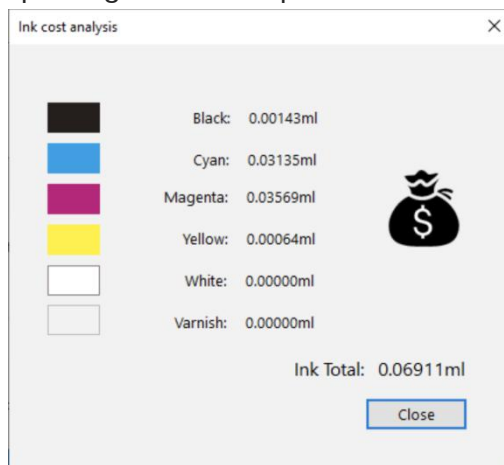
Task set – artisJet workstaion V5.0 allows users to set the single task copies and printing direction for custom demand of each task.
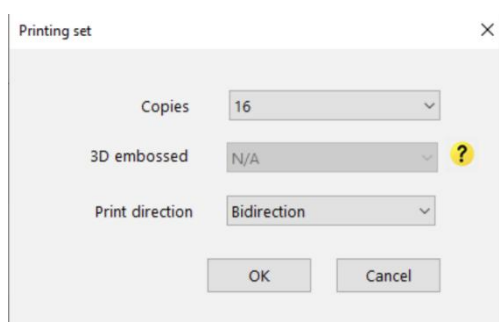
6

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.

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 V5.0 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.
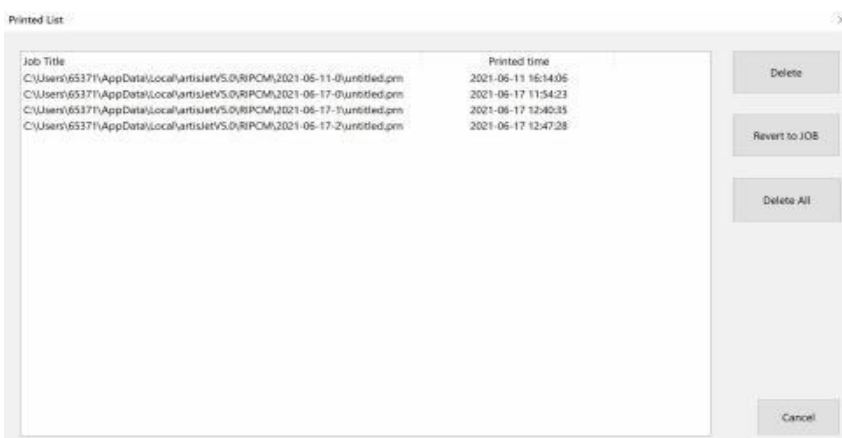

Print Statistics Log.
The print statistics log is used to record and count the usage information of the printer and the print volume of the device.
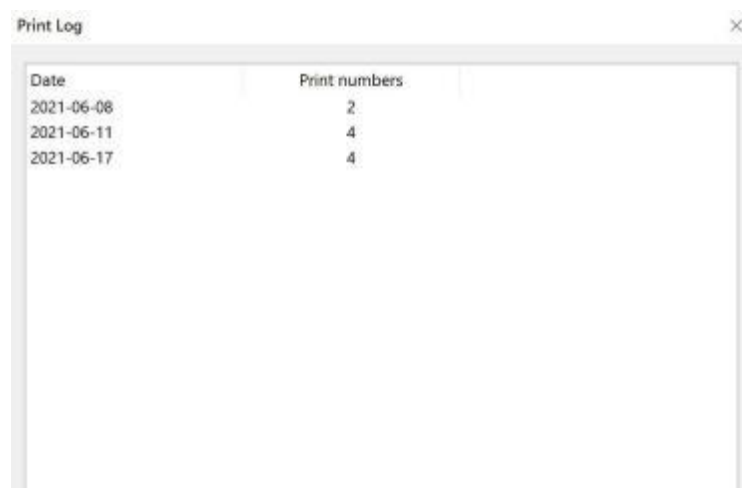
Custom API interface.

The image interface of artisJet workstaion V5.0 is based on the Hot folder (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 workstaion V5.0 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.
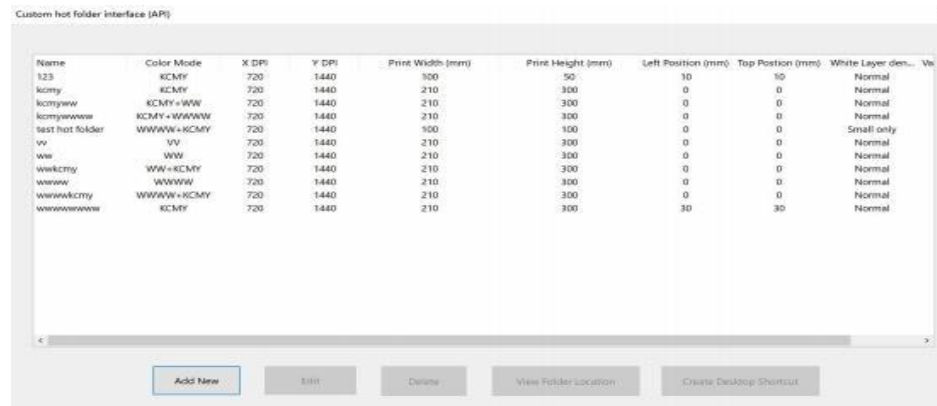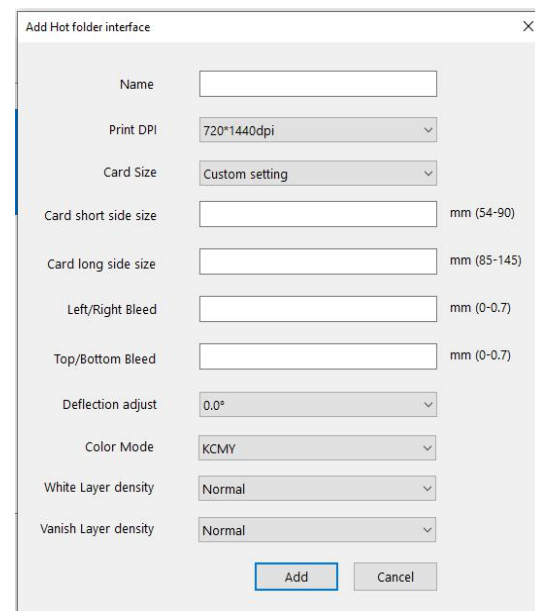

Further Explanation about Hot Folder.

1. 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.
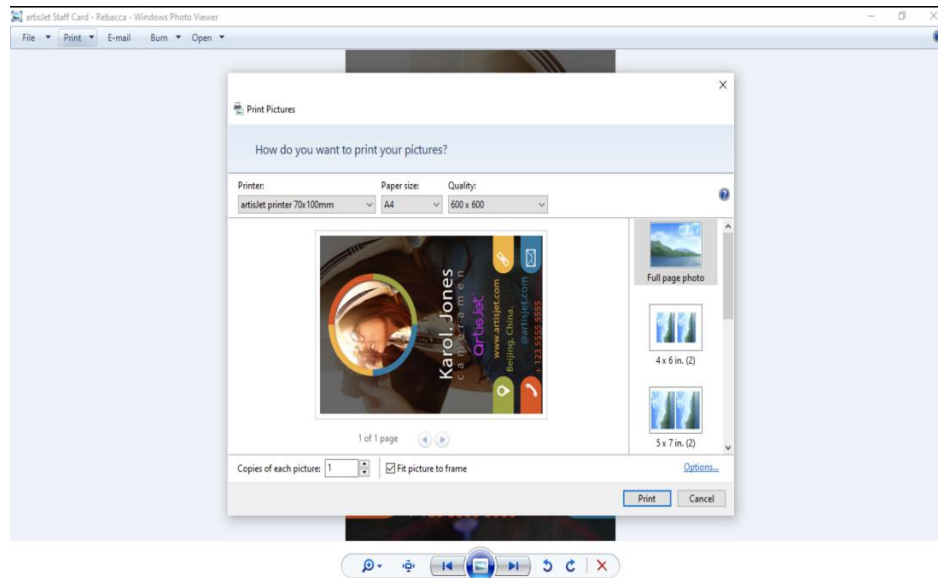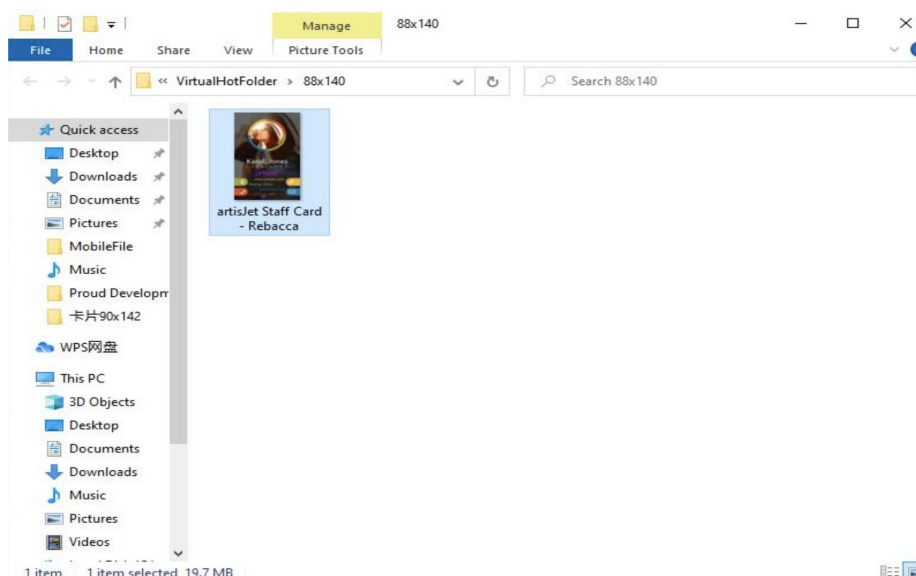
3. Interface Method.

A. The 1st method: Universal printing interface method.
After the installation of artisJet workstaion V5.0, 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 a universal hot folder and hot folder shortcuts to the desktop. The user needs to put the pictures that need to be printed into the   folder. The work flow inside artisJet workstation V5.0 It will automatically read the picture and create a print task based on the built-in information of the picture. 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.

Example: The image in the picture below will be printed with a printing width of 88mm and a printing height of 140mm.
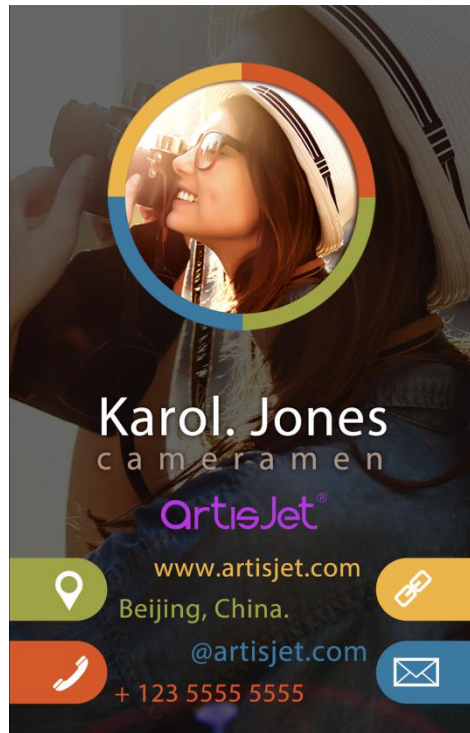

C. The 3rd method: Customize hot folder interface mode.

artisJet workstaion V5.0 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.
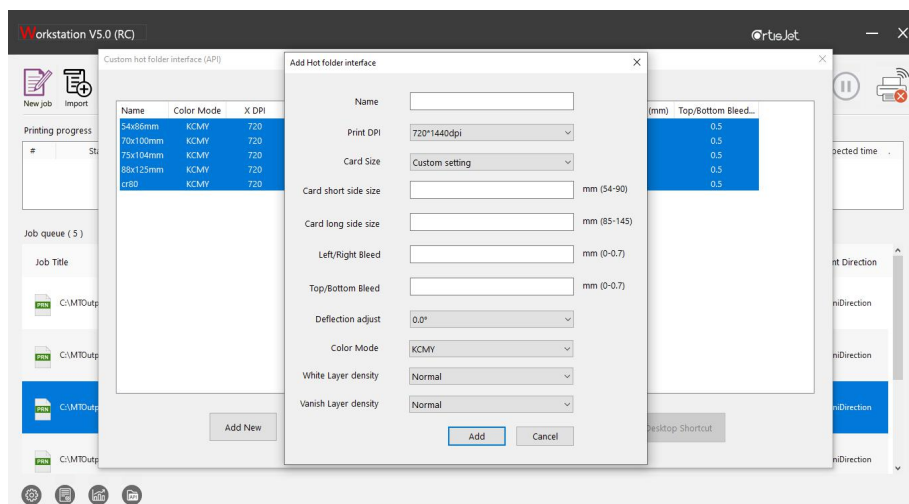
D. The 4th method : Advanced Interface Mode
This method allows users to dynamically and flexibly perform different print settings for each print image.   Users can create flexible print settings by creating "images" + "image print description files" into the hot folder.
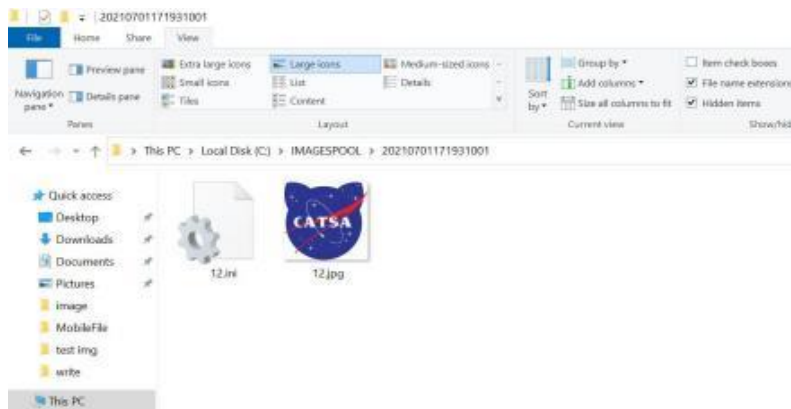
Description of image setting interface file ".ini"

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