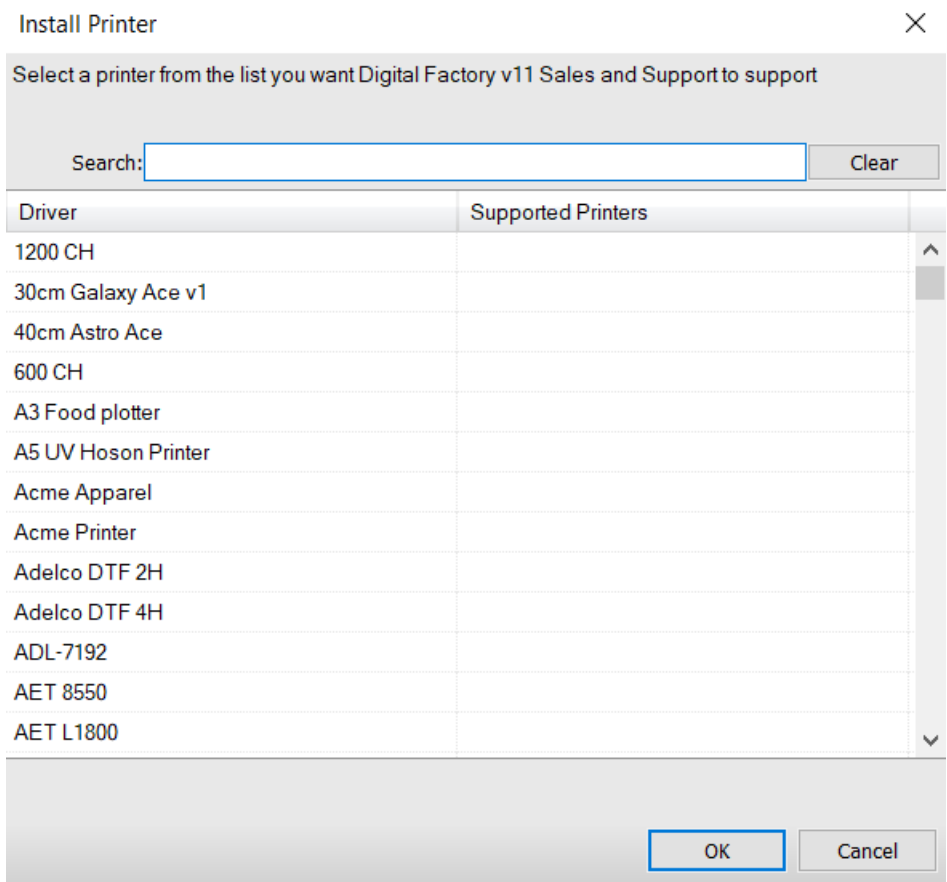
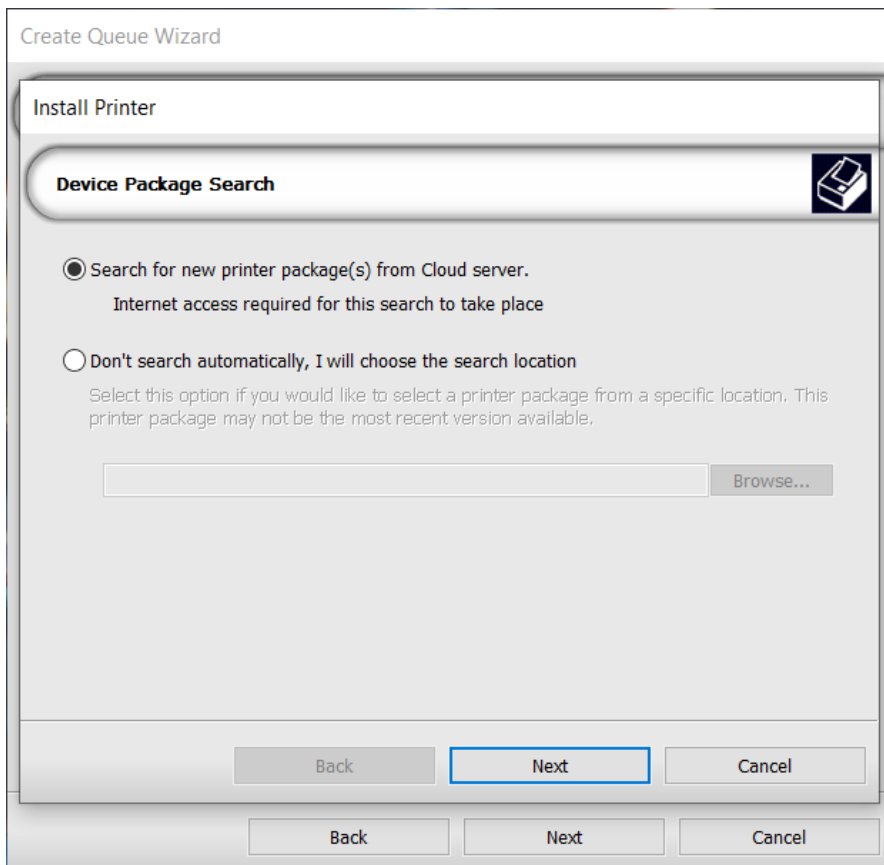


Universal Controller Driver

The Universal Controller Driver is designed to assist any user in creating a working print queue when their device cannot be found in the existing Device Installation menu. This driver contains a detailed selection of various print modes labelled after the most common machines. Combined with the ability to modify the ink setup once a print mode has been selected, this step-by-step process should make getting your device printing much easier at significantly reduced time.

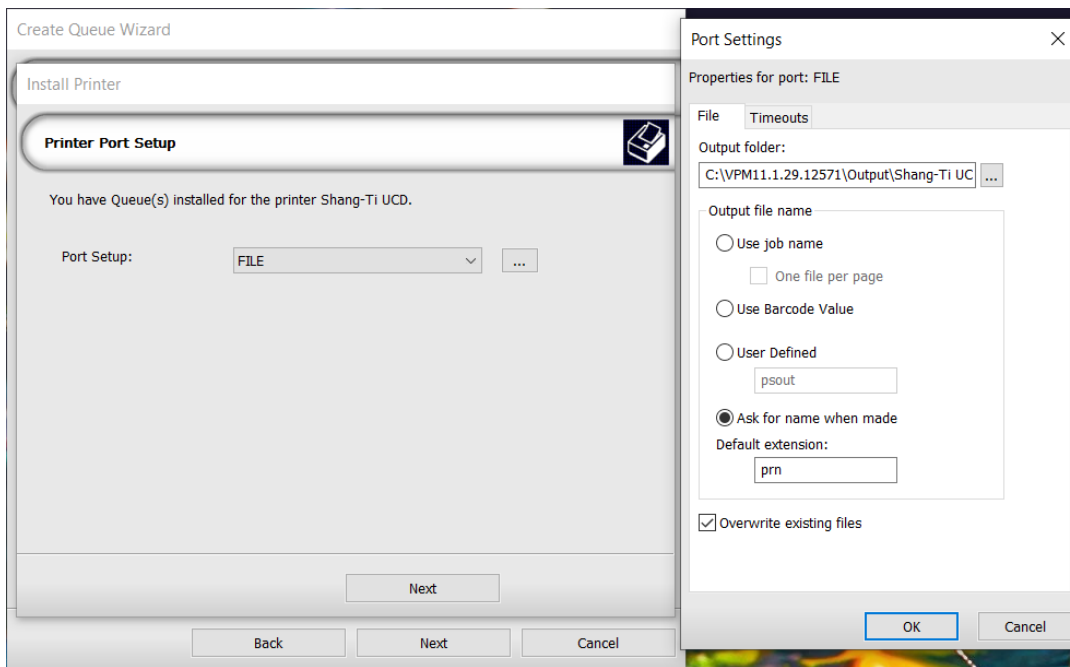
After installing Digital Factory, the first-time run process will take you through the Create Queue Wizard. Click Install Printer, and search for Universal Controller Driver. Select the driver and click OK.





Proceed with the “Search for new printer package” popup to install the driver. Once all the progress bars have finished, click next to be taken to the Port Setup window. For almost all cases, the port should be set to FILE. In some circumstances, TCP/IP or NULL will be used, however FILE is the most common port configuration.

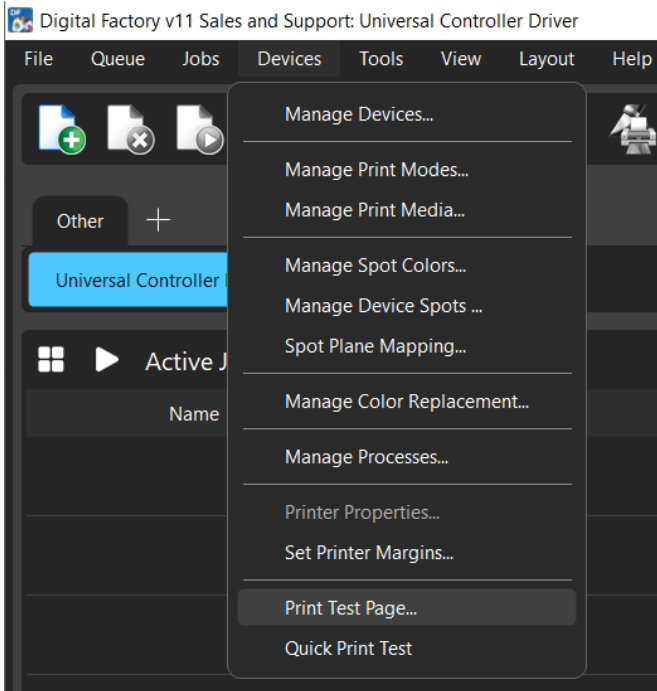
Once the port is set to FILE, the ellipses next to the port dropdown menu can be clicked to adjust the port properties. This includes the output folder, file name settings, and default extension. If your controller software has a hot folder, you can set the folder as the output destination. This way, printing from Digital Factory results in the file going straight to the controller software. Note that depending on your controller software, you may need to adjust the file extension. These can also be adjusted later from the Queue Properties within Digital Factory.



Follow the Create Queue Wizard steps to finalize the queue creation and be taken into Digital Factory. The first step to get your device working is to find a Print Mode that works. Navigate to the Queue Info pane on the right side of the screen. By clicking the dropdown box currently labelled "Default", a wide array of print modes are available, labelled after common devices. The goal is to find one that works with your connected device. Note that it doesn't have to print correctly, just that it must print, and the file opens into your controller software without error. The process should be as follows:

- Select a print mode from the dropdown menu
- Print a test page (Devices > Print Test Page > Select an image > Print once ready)
- Move the print data file (.prn) into your controller software if required

If the file opens into your controller software without error, you can proceed with the process. If an error is encountered, you must repeat the above process until a working print mode is found.



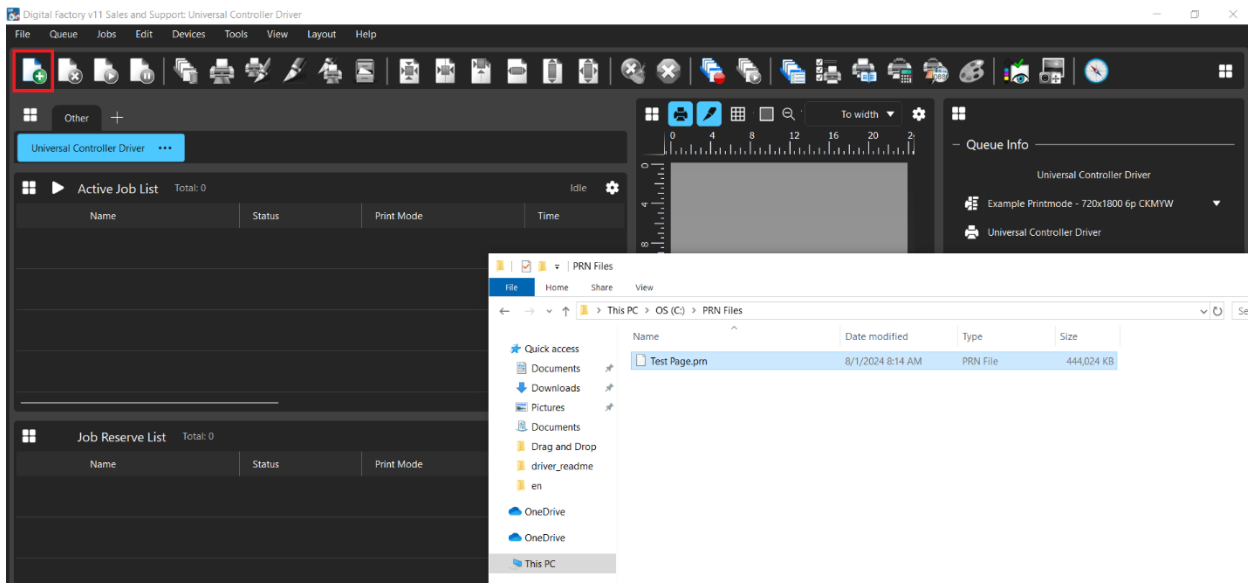
Once a test file has been printed and opened into the controller software successfully, you may see that the colors are incorrect. To correct this, the ink setup must be adjusted to match the print nozzles on the device. This can be achieved using the [Ink Order Setup](#).

UCD Auto Configure

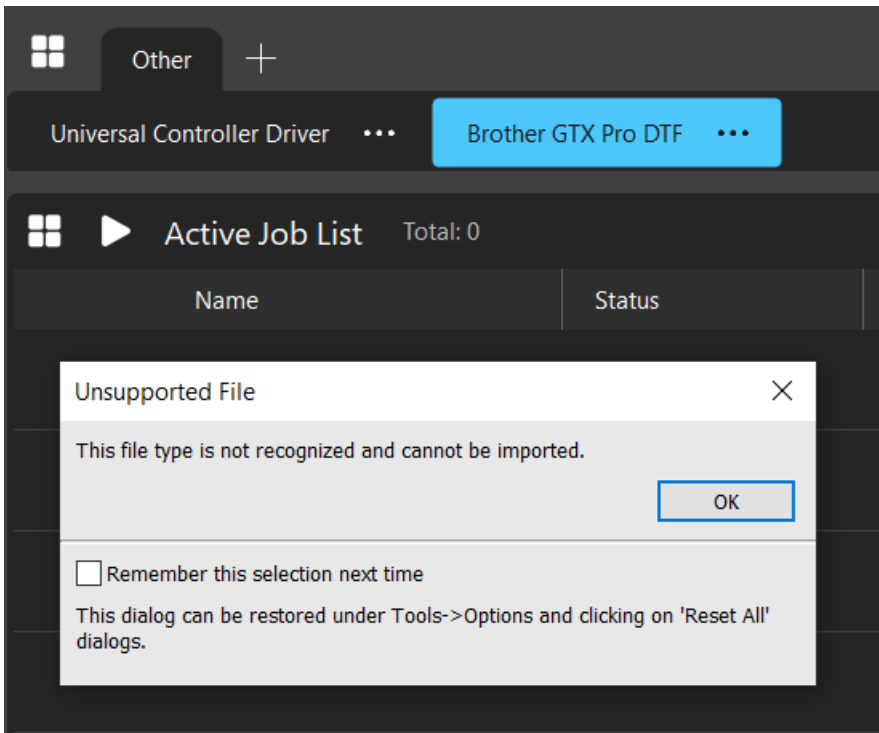
The Universal Controller Driver supports a drag-and-drop workflow for creating print modes with a print data file (PRN/PRT). By utilizing this process, users can save valuable time by having the print mode automatically generated, rather than having to reach out to customer support to have the print mode generated for them.

To use this feature, Digital Factory must be installed, and the Universal Controller Driver installed with a queue set up. See the above instructions for additional information on installing the Universal Controller Driver.

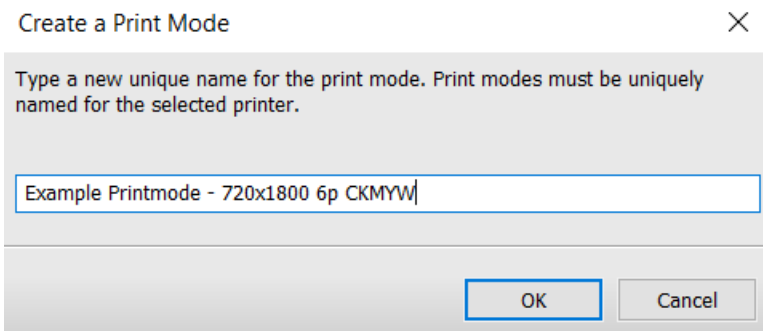
Once the software installation and driver installation are complete, navigate to the desired print data file. Drag the file from File Explorer into the workspace. Alternatively, use the Open button in the toolbar, or navigate to Import File under the File menu.



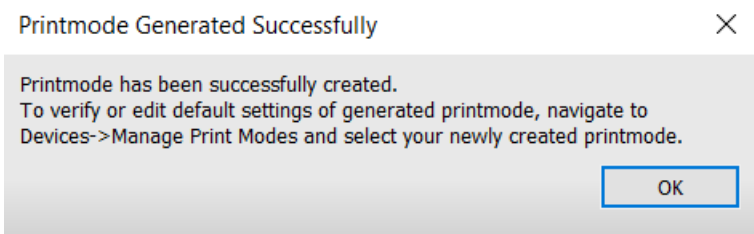
Note that in the event other devices are installed in Digital Factory, the Universal Controller Driver must be the actively selected queue. Other queues will not recognize print data files, and an error will display.



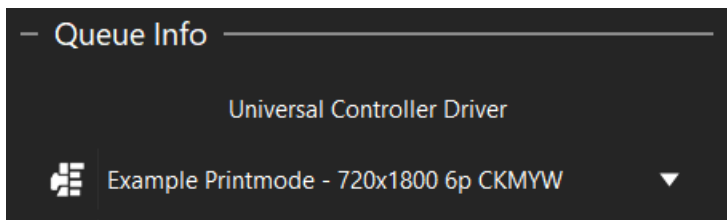
Once the file has been imported, the Create a Print Mode dialogue box will populate the workspace. Name the new print mode using the dialogue box. By default, the name of the print mode is My Printmode, followed by the resolution, the number of passes, and color channels of the device. Modify the name as seen fit.



Once the print mode has been named as desired, click OK. An alert will populate notifying of the successful print mode generation.



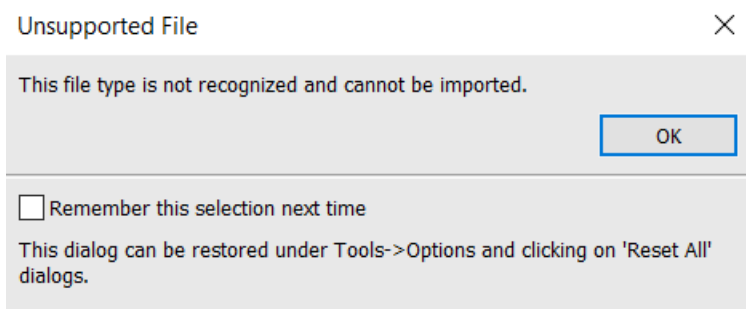
Once the print mode has been created, click anywhere within the software to update the workspace. The print mode selection will update to the new print mode under the Queue Info window.



Troubleshooting

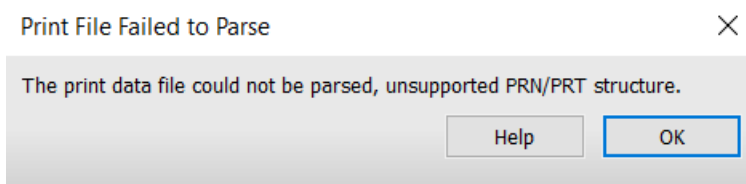
In the event an error occurs when importing a print data file, there are two possible error messages that will display.

The first error message is the result of importing a print data file into the incorrect queue:



- In the event this error message is displayed, ensure the Universal Controller Driver queue is the active queue when attempting to import the print data file.

The second error message can result from a variety of possible issues:



Below are some of the most common causes for this error message:

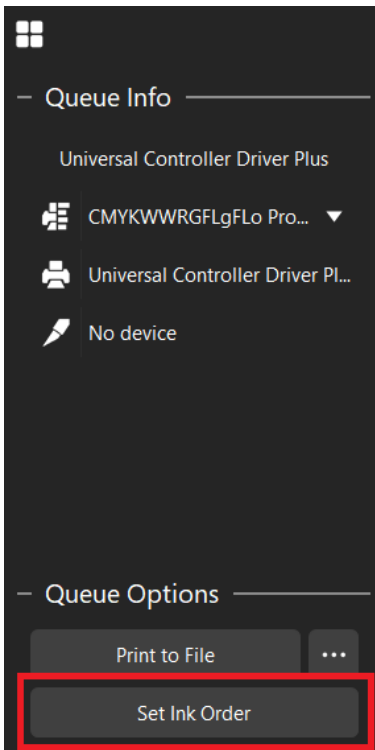
- The print data file is not sourced from a controller-based printer.
- The print data file is not supported by the Universal Controller Driver. This may occur due to incompatibility in the file structure, or lack of key information needed by the Universal Controller Driver (passes, color model, resolution, etc).
- The print data file is not a PRN/PRT file.

To try and correct the error, double check to ensure the print data file is being imported into the Universal Controller Driver. If the error still occurs, it is recommended to go through the manual print mode creation process as detailed in the Universal Controller Driver feature above.

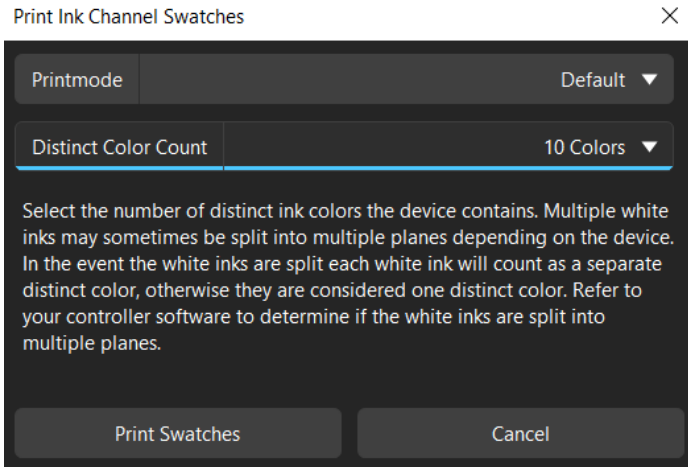
Ink Order Setup

The Ink Order Setup Wizard is designed to work with the Universal Controller Driver (UCD) to get new devices printing with quality outputs. The Ink Order Setup Wizard falls into the process after using the UCD to create a working printmode. The Ink Order Setup Wizard provides users with a simplistic and easy-to-follow method of determining and setting the proper ink channel order of their device.

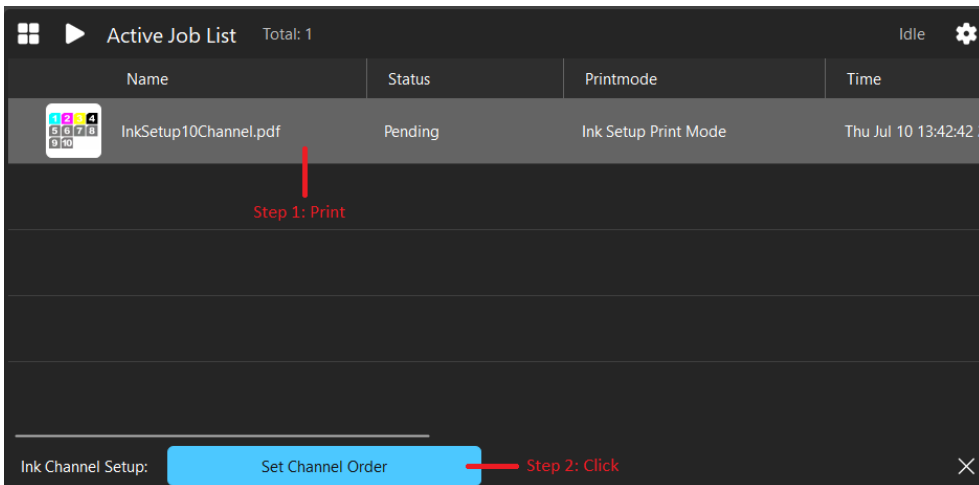
To begin the process, use the Set Ink Order button in the Queue Options pane located in the main workspace.



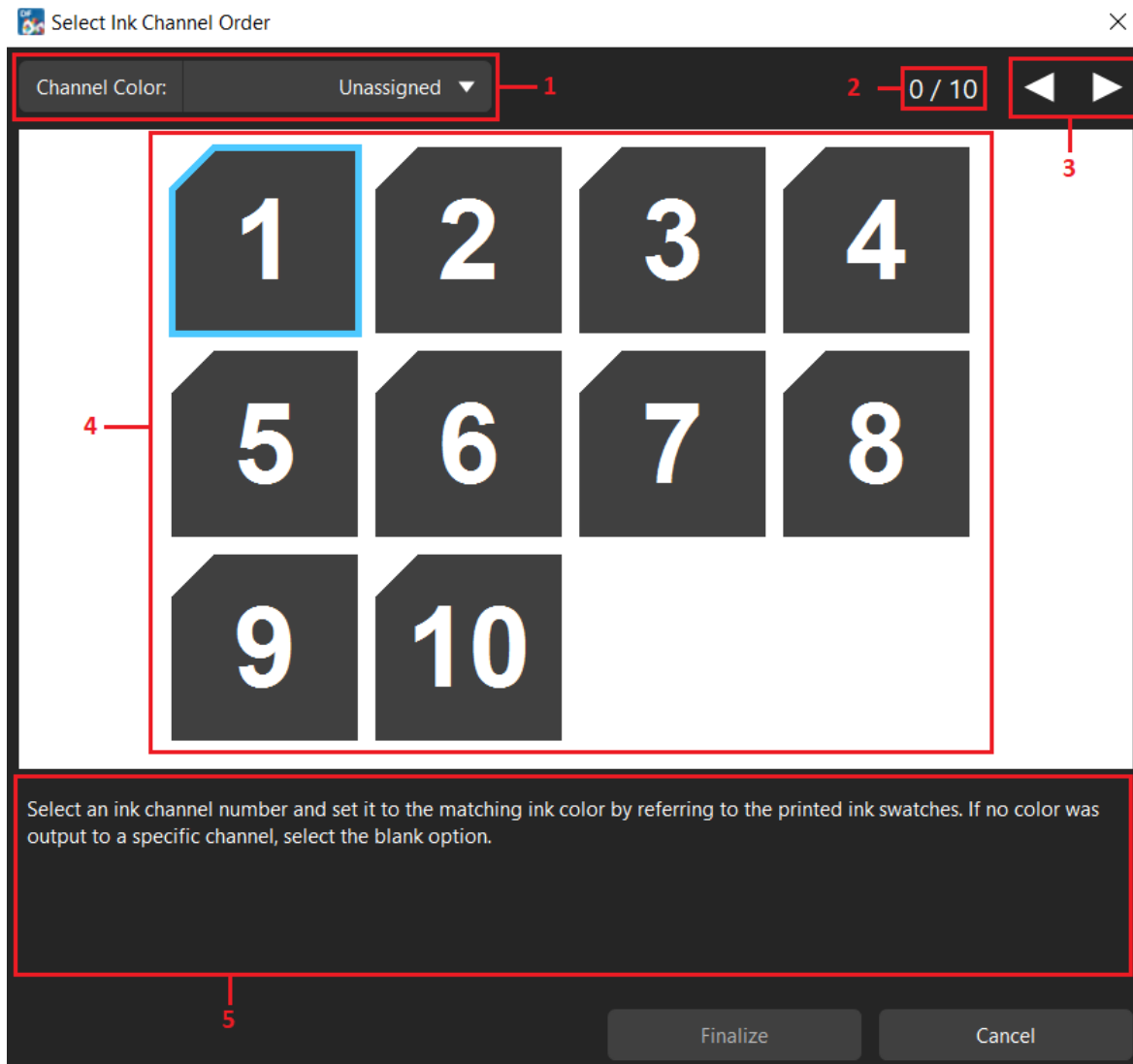
The first step is to set the number of distinct ink colors in the device. The order does not matter yet at this stage. Simply refer to the device and select the number of distinct colors from the dropdown menu. As noted in the window, white inks may be either one distinct color or multiple colors depending on if the ink is separated into multiple planes. Refer to the controller software for the device in the event you are unsure.



When the number of distinct ink colors has been set, click the Print Swatches button. A chart will be loaded into the proper queue to be output. Print the chart and once complete click the Set Channel Order button at the bottom of the Active Job List pane.

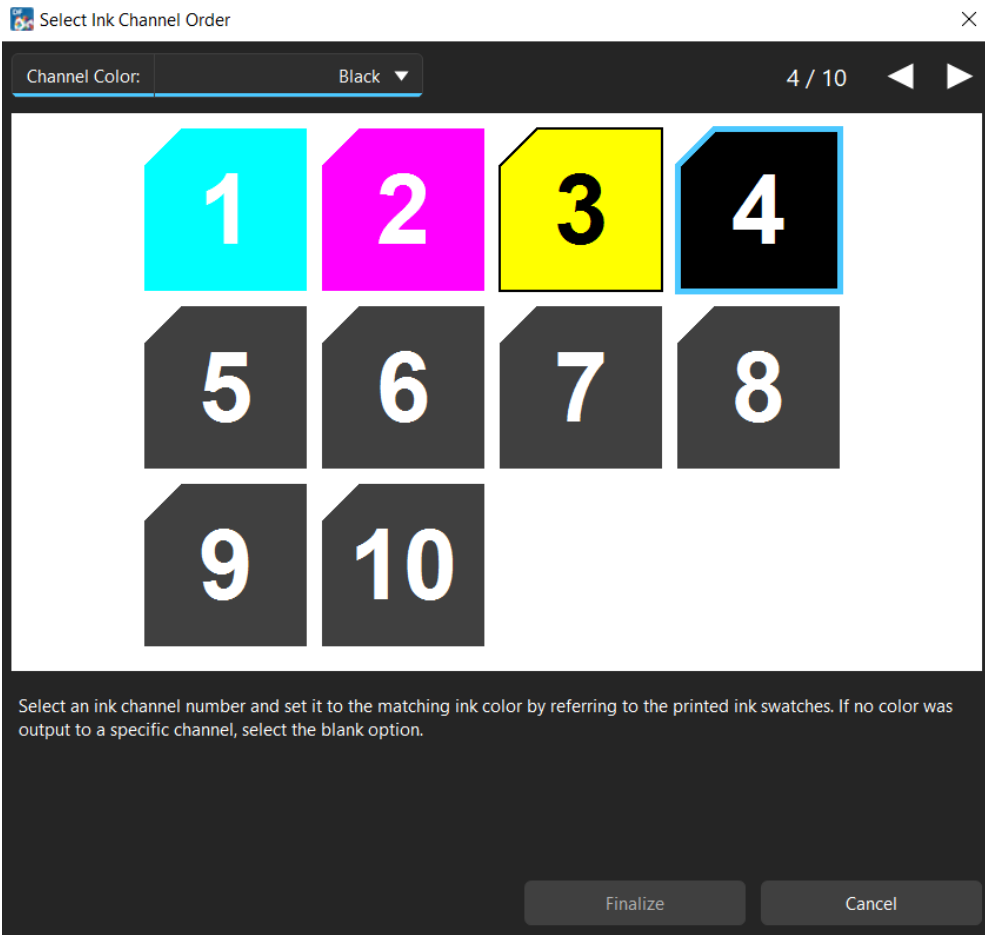


The Select Ink Channel Order window will open on screen. This window will allow you to enter the proper ink order information by adjusting each channel number to match the printed swatches. The Set Ink Channel Order window contains the following interface elements:



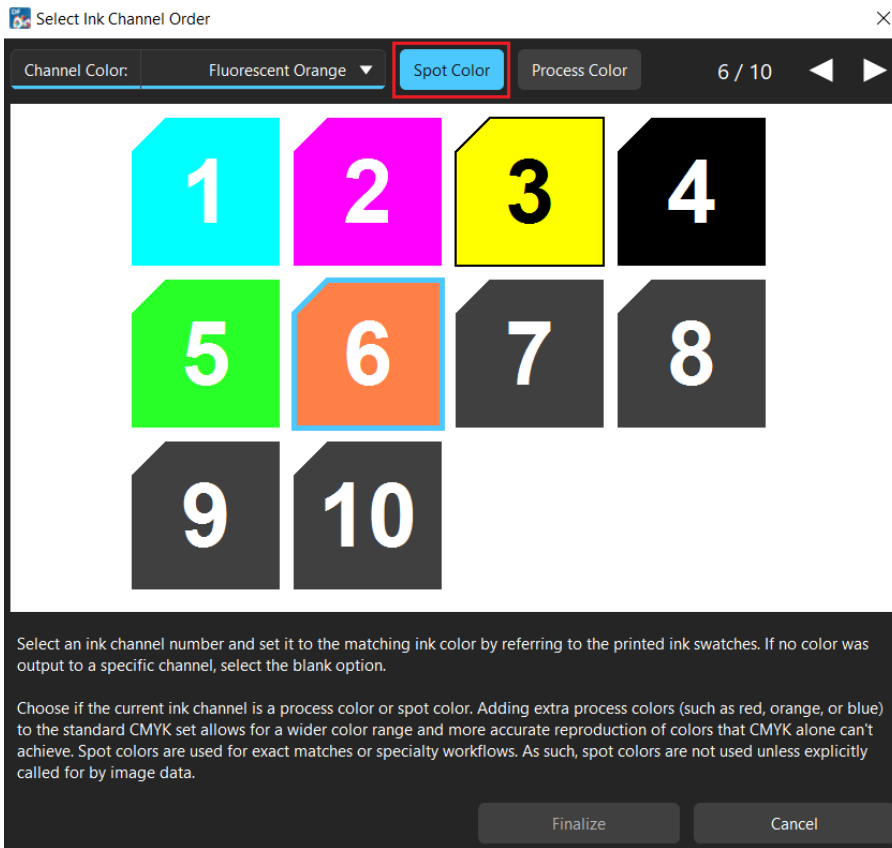
1. Channel Color Dropdown: Used to set the ink color of the actively selected channel.
2. Progress Counter: Displays how many ink channels have had the color set.
3. Navigation Arrows: Click to select the next or previous ink channel box.
4. Ink Channel Boxes: Each box corresponds to an ink channel. These boxes will change color to reflect the information selected using the Channel Color dropdown menu.
5. Instructions and Information: Displays any relevant information to the current selection.

To set the ink order, the boxes must be modified to match the swatches that were printed in the earlier steps. The actively selected channel box has a blue outline around it. Using the dropdown menu, set the color of the active channel to match the color of the printed swatch.

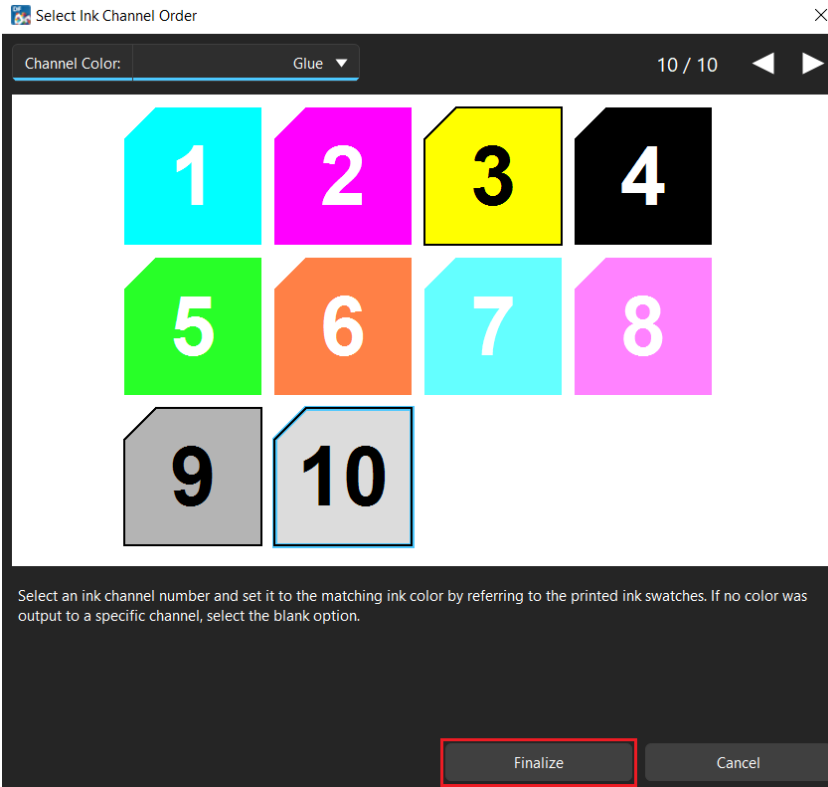


IMPORTANT: One instance of Cyan, Magenta, Yellow, and Black must be present when setting the ink channel colors. Cyan, Magenta, Yellow, and Black must be within the first 4 colors.

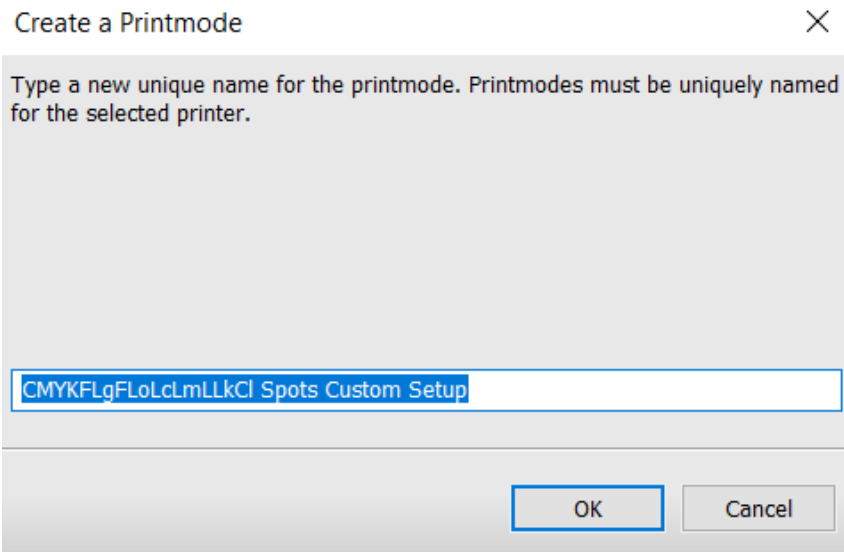
Some ink colors, such as fluorescent inks, maybe be labelled as spot colors. Enabled by default for these inks, spot colors are excluded from the normal ink mixing process. Use the Spot Color toggle button to set if these inks will be used as spot colors or not. See the description in the Setup Ink Channel Order window for additional information.



Once all the ink channels have been set to match the printed swatches, click the Finalize button to complete this step of the process.



The Setup Ink Channel Order window will close, and a field to name the newly created printmode will appear. By default, the printmode name will reflect the ink order as it was specified but can be renamed as desired.



After naming and creating the printmode, the device is ready for printing.

After achieving a working printmode, it is recommended to create a printer color profile for your device. This can be done using the Fiery Color Profiler Module. For instructions on how to use the module, please follow the video tutorial: [How to use Fiery Color Profiler](#).

Once completed, your printmode can now be found in the dropdown menu in the Queue Info pane. To export your print queue for other users, do the following:

- Navigate to Queue > Manage Queues
- Click the “Export Queue” button in the header menu of the Queue Manager window
- Name your queue as desired and click save

The newly created queue file can now be sent to other users and can be added to their version of Digital Factory through a drag and drop workflow!