

NEOSTAMPA PRINT AND CUT GUIDE

Lumen S24F

Printing spot color files from Image Presto, and contour cutting the transfers



BEFORE YOU BEGIN

This guide covers the NeoStampa side of a Lumen S24F job: taking a spot color TIFF from Image Presto, laying it out, and printing it, then generating the contour cut.

It follows a real job recorded on a reference PC. Values shown in the screenshots are the ones used for that job; use your own sizes and copy counts.

Your NeoStampa driver and Lumen print scheme are installed by your DTF Station installer.

The Lumen print scheme already holds all color, white and varnish settings. Do not edit it.

Spot channels in your file must be named W1, W2 (white) and V1, V2 (varnish).

Part 2 (contour cutting) is self-contained. Set it up before you print.

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Contents

Part 1: Printing a spot color file	4
1. Before you start	4
2. Create a new document	5
3. Import the TIFF	6
4. Size the design	7
5. Make copies with Mosaic	8
6. Print the job	9
Part 2: Contour cutting	10
7. Set the cut line	10
8. Add registration marks and the QR code	11
9. Send the cut	13
Part 3: Reference	14
10. What the Lumen print scheme presets	14
11. Troubleshooting	19

PART 1: PRINTING A SPOT COLOR FILE

From a new document to a printed job. This is everything a print-only job needs.

1. Before you start

This guide takes one spot color file from Image Presto to finished Lumen S24F transfers in NeoStampa. The Lumen print scheme already holds every color, white and varnish setting, so a normal job is only five things: open a document on the Lumen scheme, import the file, size it, make copies, and print. Part 2 adds the cut line, registration marks and QR code for contour cutting.

Check these first

ITEM	WHAT IT SHOULD BE
NeoStampa	Installed and licensed. The reference PC runs neoStampa Delta v26.5 .
Lumen printer entry and print scheme	Installed by your DTF Station installer. Installing the driver and scheme is not covered here. The scheme on the reference PC is Lumen S24F_TPU Film_ColorPrime Ink_720x1200 8Pass_260608 .
Your design file	A Multi-Channel TIFF exported from Image Presto (or another program that writes named spot channels).
Cutter (Part 2)	The Arc 127 Cutter , connected and set up in NeoStampa.
Spot channel names	White channels named W1 and W2 , varnish channels named V1 and V2 . These names must match the Lumen preset exactly. Image Presto allows up to four channels.

NOTE

The channel names are what tell the printer where to lay white and varnish. A channel named anything other than W1, W2, V1 or V2 is ignored by the Lumen preset.

Finding your way around

Two places in the NeoStampa window matter for this job. The bar above the canvas shows the printer and print scheme of the open document. The Properties panel on the right lists every setting you will use; click an item to show its settings below the list.

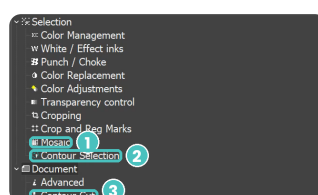


Figure 1. The Properties panel. (1) Mosaic, (2) Contour Selection and (3) Contour Cut, used in Part 2.

2. Create a new document

- 1 Click the **New Document** button at the top of the left toolbar. The **New Document...** dialog opens.
- 2 Under **Document Type**, select **Garment** (1).
- 3 In the **For Printer** list (2), choose the **Lumen S24F** printer entry.
- 4 In the **Scheme** list (3), choose the Lumen scheme, **Lumen S24F_TPU Film_ColorPrime Ink_720x1200 8Pass_260608**.
- 5 Click **Ok** (4). An empty canvas opens and the bar above it shows the printer and scheme you chose.

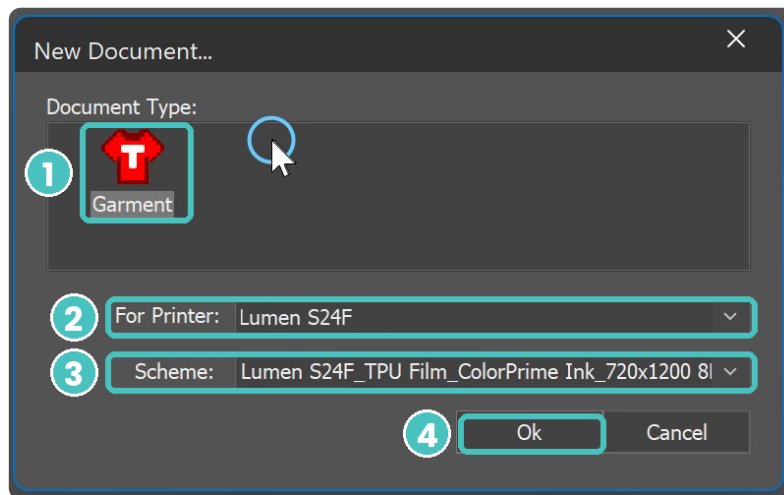


Figure 2. The New Document dialog with the Lumen scheme selected.

IMPORTANT

Always pick the Lumen scheme here. Every white, varnish and color setting for the spot channels lives inside it. A document opened on any other scheme will not print white or varnish correctly.

3. Import the TIFF

- 1 Click the **Import** button in the left toolbar, or drag the TIFF file from a folder straight onto the canvas.
- 2 In the **Import** dialog, select your TIFF file (1). The preview and **File Information** confirm it is the right file and that the format is TIFF.

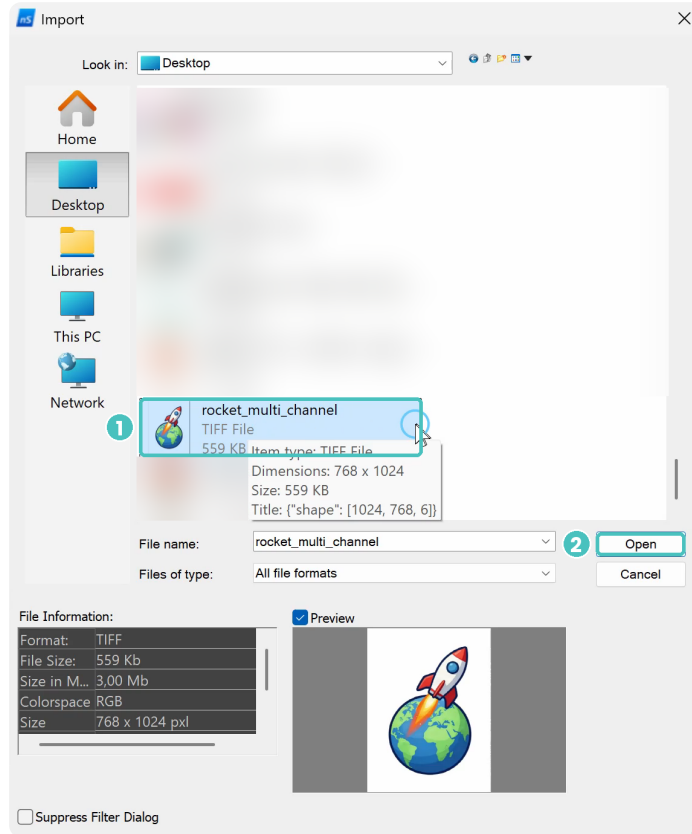


Figure 3. The Import dialog with the Image Presto file selected. Other files in the folder are blurred.

- 3 Click **Open** (2). The design lands on the canvas at the size it was exported (the reference file arrives at 36.12 cm x 27.09 cm).

4. Size the design

- 1 Click the design on the canvas to select it.
- 2 Type the size you want in the width box on the toolbar at the top left (left box). Keep the proportion lock (right box) pressed in so the height follows. The reference job sets the design to **12.12 cm x 9.09 cm (33.55 %)**.

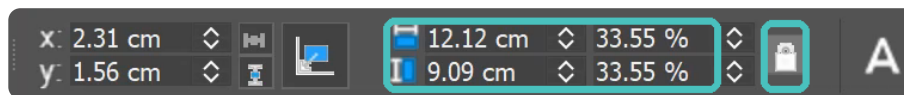


Figure 4. Size boxes (width, height and percentage) and the proportion lock.

- 3 Press Enter. The status bar at the bottom of the window confirms the new size.

Size the design before you make copies, so every copy comes out at the same size.

5. Make copies with Mosaic

Mosaic fills the film with copies of the selected design in one step.

- 1 With the design selected, click **Mosaic** in the Properties panel.
- 2 Choose **Copies** (1).
- 3 Set **Width** (copies across the film) and **Length** (copies along the film) (2). **Total** updates by itself. The reference job uses Width 6 and Length 3, Total 18.

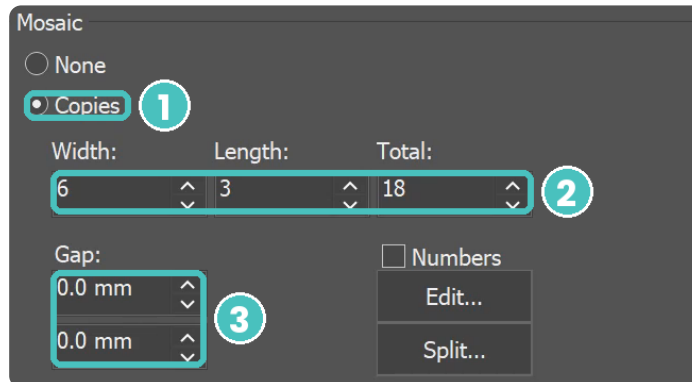


Figure 5. Mosaic set to 6 x 3 copies with no gap.

- 4 Set both **Gap** boxes (3). The reference job uses 0.0 mm, because the transfers are cut along each design's own outline and need no space between them.
- 5 Click **Apply** at the bottom of the Properties panel. The copies appear on the canvas.

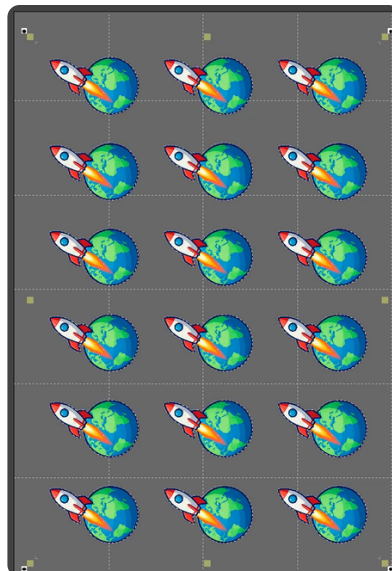


Figure 6. 18 copies on the canvas after Apply.

6. Print the job

IMPORTANT

Cutting this job too? Complete Part 2, sections 7 and 8, BEFORE you print. The registration marks and QR code the cutter reads are printed with the job, so they must be on the canvas when you click Print.

- 1 Click **Print...** at the bottom right of the Properties panel. The **RIP Options** dialog opens.
- 2 Check the **Printer** and **Connection** (1). The printer reads **Lumen S24F**; on the reference PC the connection is **TCP/IP:127.0.0.1:9100**.

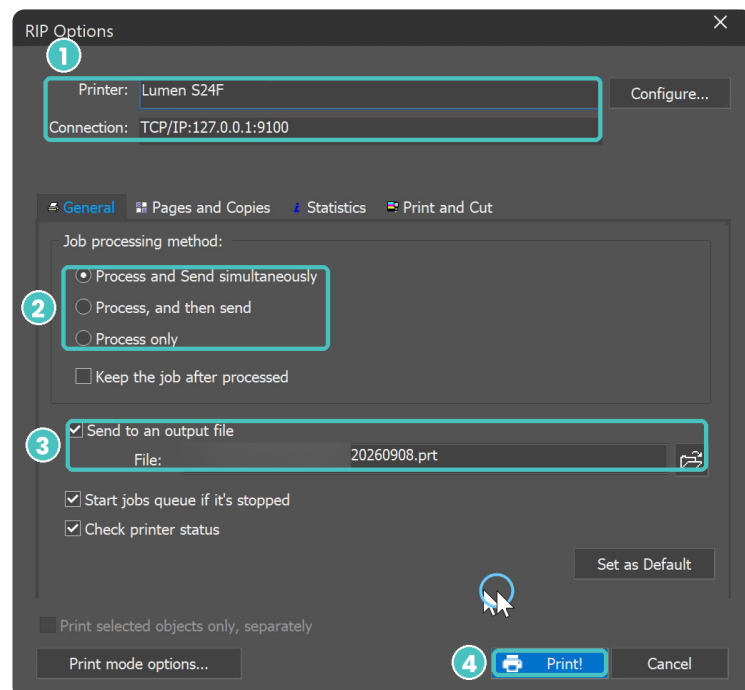


Figure 7. RIP Options on the General tab. The Windows user folder in the file path is blurred.

- 3 Leave **Job processing method** on **Process and Send simultaneously** (2).
- 4 Choose how the job leaves NeoStampa (3). Either send it straight to the printer over the TCP/IP connection, or tick **Send to an output file** to save a print file (.prt) and send that file later. On the reference PC the box is ticked and the file is named after the job (**20260908.prt**).
- 5 Leave **Start jobs queue if it's stopped** and **Check printer status** ticked.
- 6 Click **Print!** (4). The job appears in the **Job Queue** under the canvas with the status **Processing and printing job** and a progress bar.

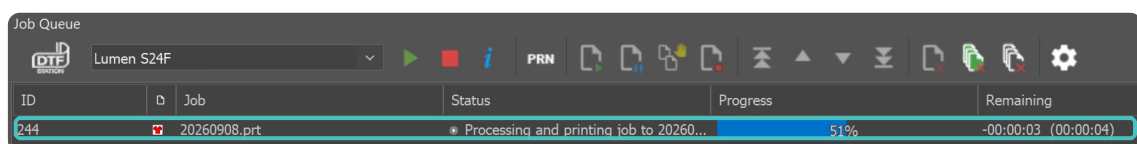


Figure 8. The job in the Job Queue while it processes and prints.

PART 2: CONTOUR CUTTING

For jobs that are contour cut on the Arc 127 Cutter: adds the cut line, registration marks and QR code, then generates the cut file. Do sections 7 and 8 before you print.

7. Set the cut line

Contour Selection tells NeoStampa where to cut: along the outline of each design.

- 1 Select the designs on the canvas, then click **Contour Selection** in the Properties panel.
- 2 Make sure **Cut shape outline** is ticked (1). On the reference PC it is already ticked.

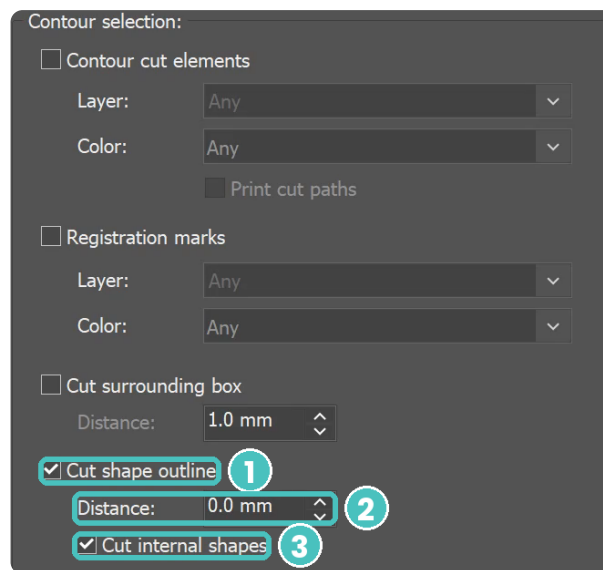


Figure 9. Contour Selection: cut along the shape outline, at 0.0 mm, including internal shapes.

- 3 Set **Distance** to **0.0 mm** (2). The cut follows the edge of the design exactly and does not cut into the print.
- 4 Tick **Cut internal shapes** (3).
- 5 Leave **Contour cut elements**, **Registration marks** and **Cut surrounding box** unticked here.
- 6 Click **Apply**.

8. Add registration marks and the QR code

Contour Cut prints registration marks and a QR code with the job, so the cutter can find the designs and load the matching cut file.

First, give the job a number

- 1 The QR code only works with a job name made of digits. If you tick **Draw QR** while the job still has its default name (for example **Garment7**), NeoStampa stops with the message **The QR requires a numerical job name**.

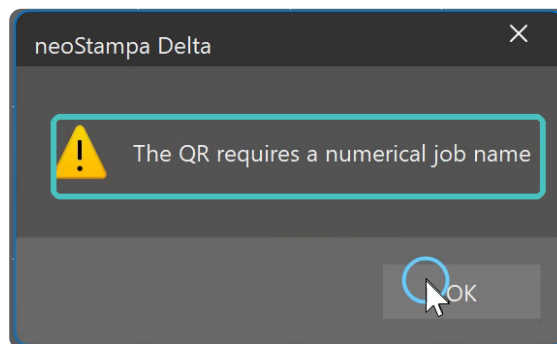


Figure 10. The message you see if the job name contains letters.

- 2 Click **OK** to close the message. Then rename the job on its tab under the canvas: click the tab name so it becomes editable and type a number. The reference job uses the date, **20260908**.

Then set Contour Cut

- 1 Click **Contour Cut** in the Properties panel, under **Document**.

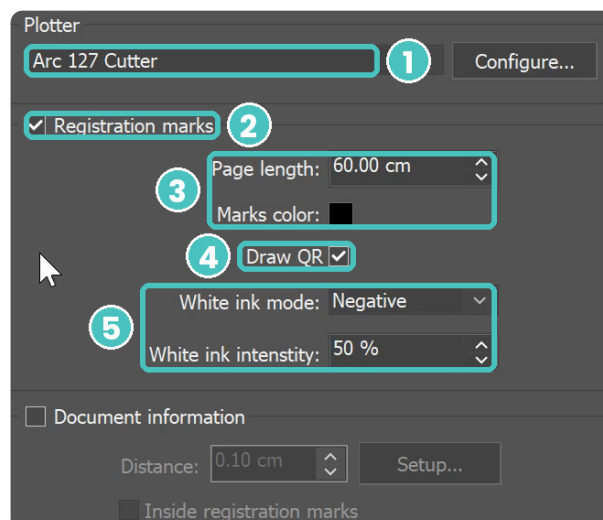


Figure 11. Contour Cut settings used for the reference job.

- 2 In **Plotter** (1), choose **Arc 127 Cutter**.
- 3 Tick **Registration marks** (2).

- 4 Check **Page length** and **Marks color** (3). The reference job uses **60.00 cm** and black.
- 5 Tick **Draw QR** (4).
- 6 Leave **White ink mode** on **Negative** and **White ink intensity** on **50 %** (5), as on the reference PC.
- 7 Click **Apply**. The QR codes appear at the corners of the job next to the registration marks, and the tab shows the numeric job name.

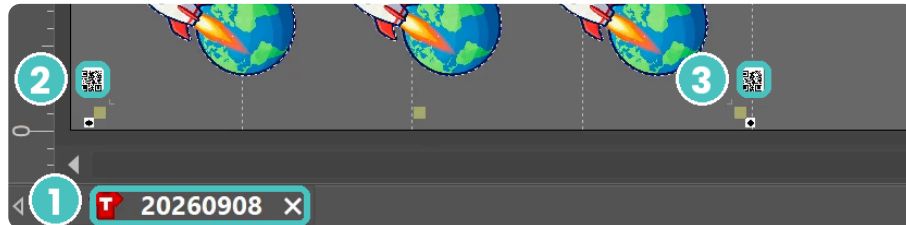


Figure 12. (1) The numeric job name on the tab. (2) and (3) The QR codes now drawn at the corners.

NOTE

Now print the job as described in section 6. The marks and QR code print with the transfers.

9. Send the cut

Once the job has printed, create the cut file.

- 1 Click **Cut...** at the bottom right of the Properties panel, just above **Print...**. The **Contour cutting** dialog opens.
- 2 Check that **Plotter** (1) reads **Arc 127 Cutter**.

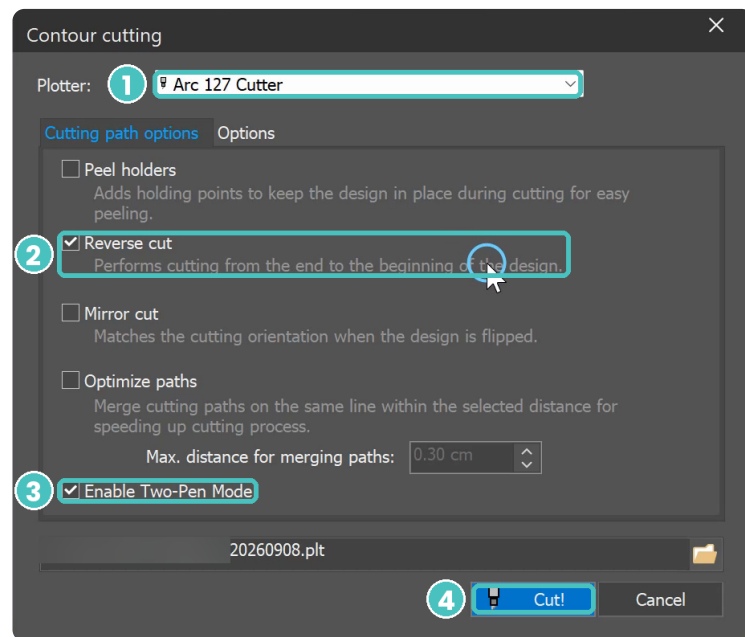


Figure 13. Contour cutting with Reverse cut and Two-Pen Mode ticked. The Windows user folder in the file path is blurred.

- 3 On the **Cutting path options** tab, tick **Reverse cut** (2).
- 4 Tick **Enable Two-Pen Mode** (3).
- 5 Leave **Peel holders**, **Mirror cut** and **Optimize paths** unticked.
- 6 Click **Cut!** (4). NeoStampa generates the cut file, named after the job (**20260908.plt** on the reference PC).

NOTE

Loading the printed film on the cutter and starting the cut are done on the cutter itself. They are not shown in the reference recording; follow the Arc 127 Cutter user manual.

PART 3: REFERENCE

What is preset for you, and what to do when a job goes wrong.

10. What the Lumen print scheme presets

You do not need to change anything in this section. It records what the Lumen scheme holds, so an installer or technician can check a PC that is not printing correctly.

⚠ CAUTION

Do not change these settings. Changing the white or varnish ink mode, or editing the Color Replacement Table, makes white and varnish flood the whole design or disappear from the print. If you open these dialogs to look, close them with Cancel.

How to open it

- 1 Click the ... button next to the scheme name in the bar above the canvas. The **Printer scheme manager** opens.

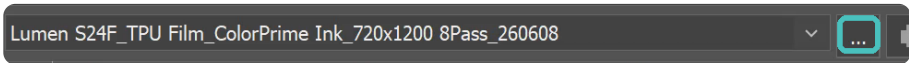


Figure 14. The button that opens the Printer scheme manager.

- 2 The **Print mode** tab (1) shows Mode **6-Color**, Quality **720x1200 8Pass** and Halftoning **Smooth Stochastic**. The button beside **Mode** (2) opens the ink setup. The **Color** tab (3) holds the Color Replacement Table.

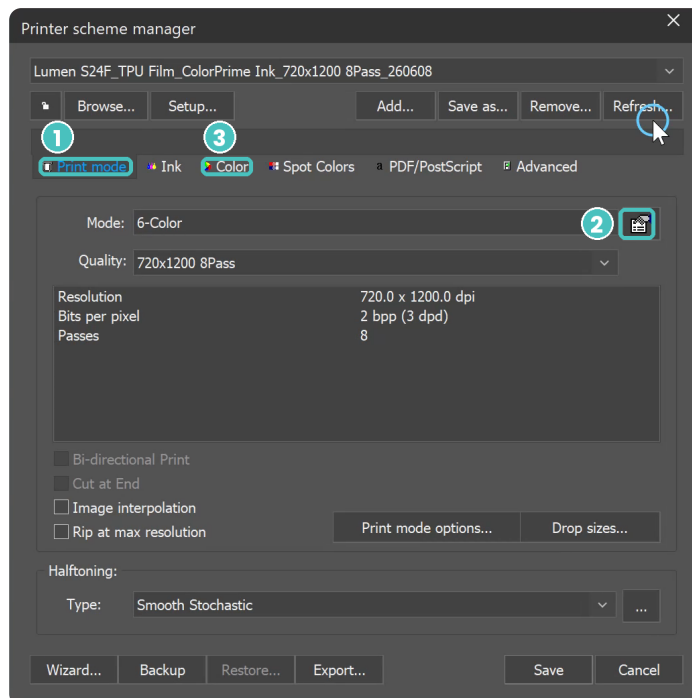


Figure 15. Printer scheme manager, Print mode tab.

White and varnish ink mode: Off

In **Custom inks setup** the six inks are Black, Cyan, Magenta, Yellow, White and Varnish (1). Select White or Varnish and click the button below **Ink curve...** (2). It is labeled with the selected ink.

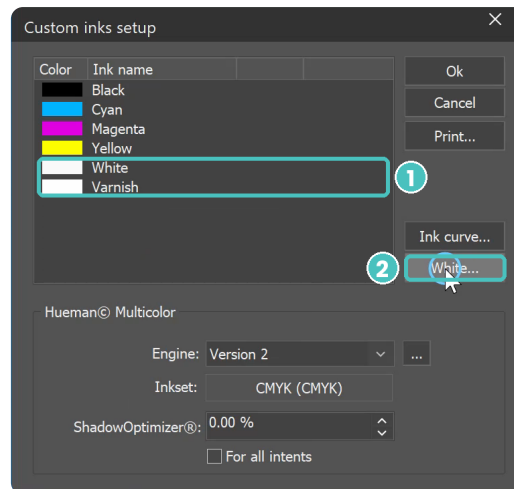


Figure 16. Custom inks setup.

For both White and Varnish, **Mode** is **Off**, not **Flat**. With the mode off, white and varnish are not laid as a flat layer under or over the image. They behave as spot colors and print only where the file's W and V channels say.

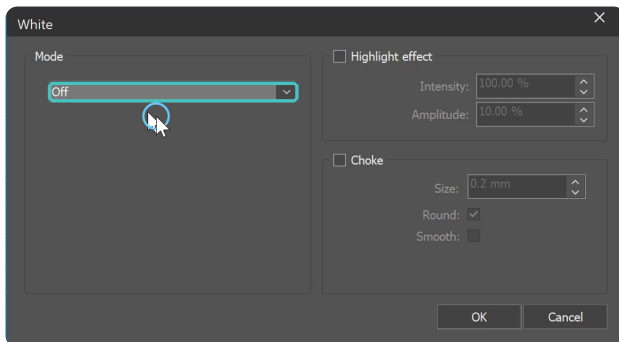


Figure 17. White: Mode Off.

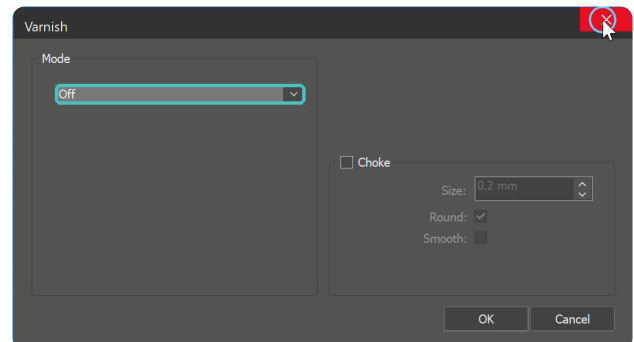


Figure 18. Varnish: Mode Off.

Color Replacement Table: Lumen S24F Spot Color Preset

On the **Color** tab (1), the **Color replacement table** (2) is **Lumen S24F Spot Color Preset**. The ... button beside it opens the table. Rendering intents (3) are also set here.

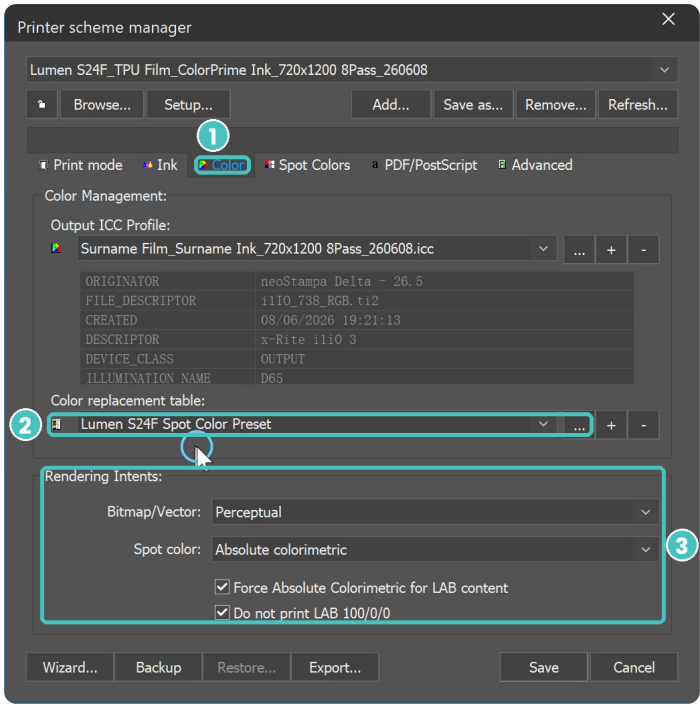


Figure 19. Printer scheme manager, Color tab.

The table maps each spot channel name in your file to ink. The color model is **KCMYWV**: the six numbers are Black, Cyan, Magenta, Yellow, White and Varnish, from 0 to 100.

CHANNEL IN YOUR FILE	OUTPUT (K C M Y W V)	PRINTS
V1	0 0 0 0 0 100	Varnish only, at 100 %
V2	0 0 0 0 0 100	Varnish only, at 100 %
W1	0 0 0 0 100 0	White only, at 100 %
W2	0 0 0 0 100 0	White only, at 100 %

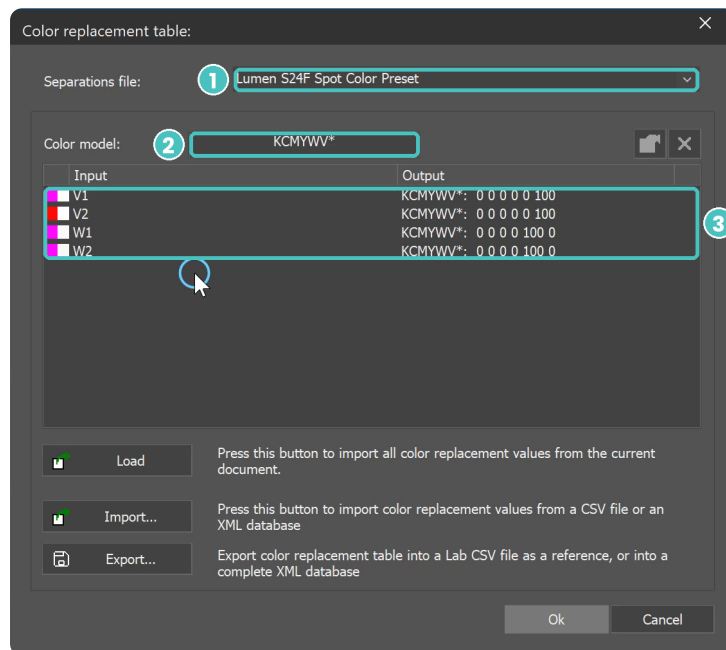


Figure 20. The Color replacement table with its four entries.

Each entry uses device color **KCMYWW*** with **Apply ink control** unticked (1), and every component except the one ink at zero (2). There are four entries, two white and two varnish, because Image Presto allows up to four channels. Your installer can add more if needed.

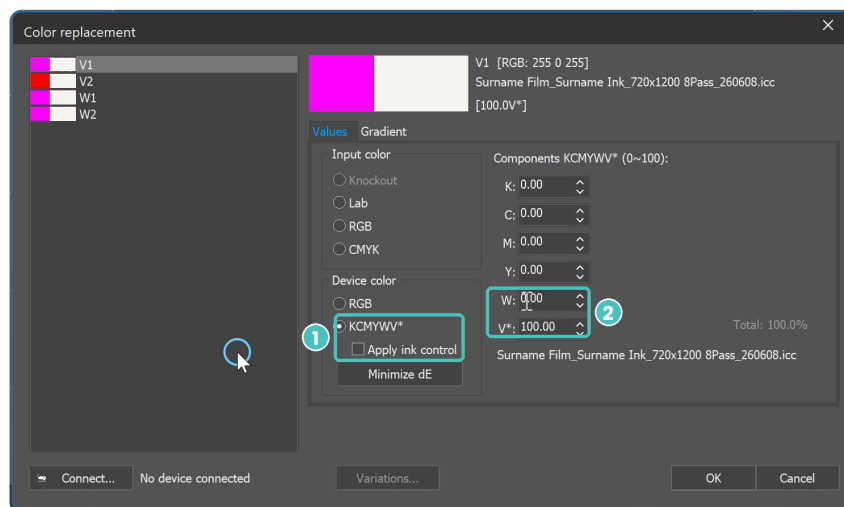


Figure 21. Entry V1: varnish 100, everything else 0.

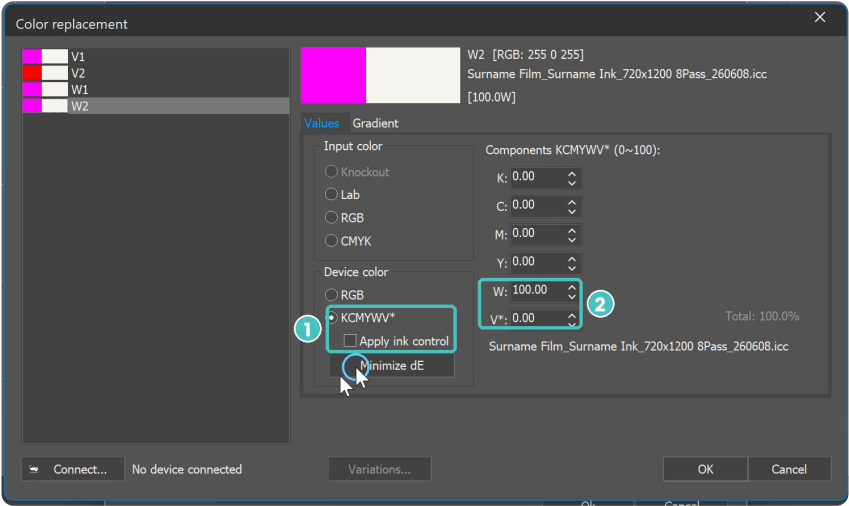


Figure 22. Entry W2: white 100, everything else 0.

Rendering intents

SETTING	VALUE
Bitmap/Vector	Perceptual
Spot color	Absolute colorimetric
Force Absolute Colorimetric for LAB content	Ticked
Do not print LAB 100/0/0	Ticked

11. Troubleshooting

WHAT YOU SEE	LIKELY CAUSE	WHAT TO DO
Message: The QR requires a numerical job name	The job name contains letters (for example the default Garment7).	Click OK, rename the job tab to digits only (for example the date, 20260908), then tick Draw QR again. See section 8.
White or varnish does not print, or prints in the wrong place	The spot channel names in the TIFF do not match the preset, or the document is not on the Lumen scheme.	In Image Presto, rename the channels exactly W1, W2, V1, V2 and export again. Check the scheme name in the bar above the canvas (section 2).
White or varnish floods the whole design	The White or Varnish ink mode in the scheme was changed from Off.	Ask your installer to restore the Lumen print scheme. Do not edit it by hand (section 10).
The design prints flat: color only, no white or varnish texture	The file was exported without spot channels (for example as a PNG, or flattened in another program).	Export again from Image Presto as a Multi-Channel TIFF, then import that file.

For anything not covered here, contact DTF Station support with a screenshot of the scheme name and the Job Queue.