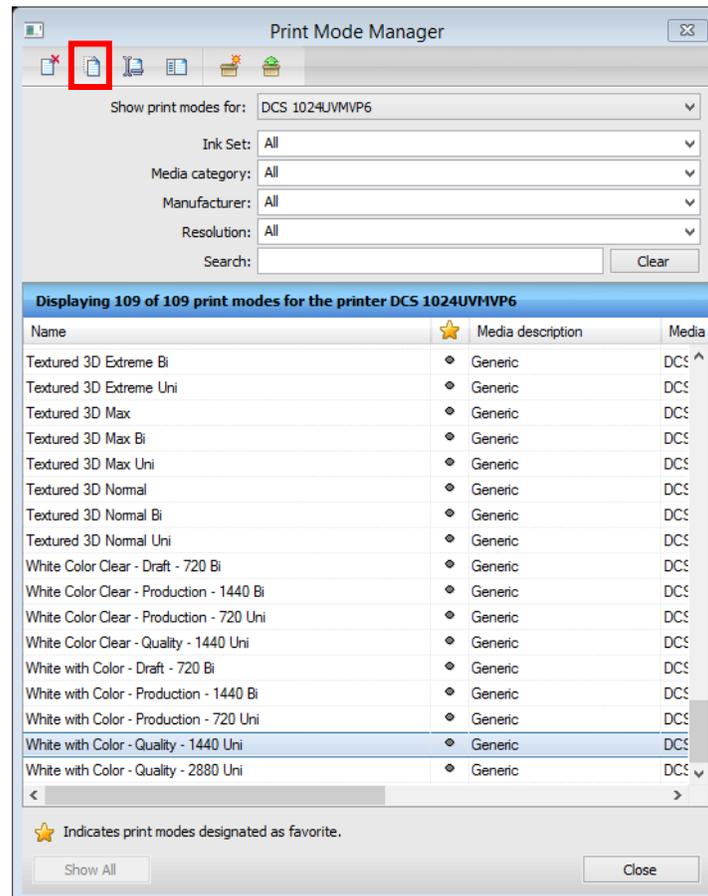# Direct Color Systems®

# Increasing White Ink Density

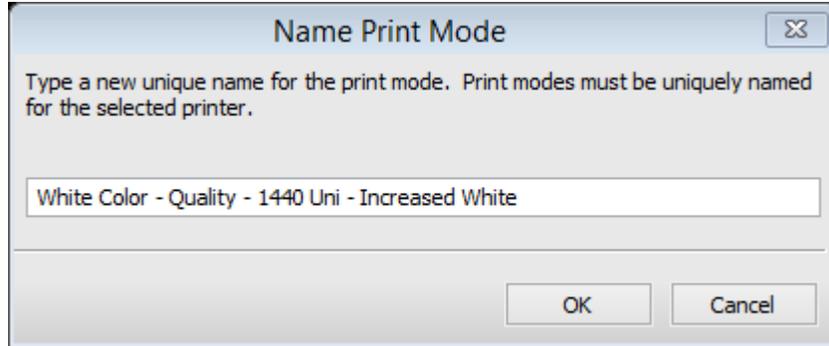## I.       Create a Custom Print Mode

Once you have selected a starting print mode, duplicate the print mode and rename it.  This will allow you to try different settings with this print mode without changing the default print mode settings.  Also, you can easily save custom print modes so you can always have a backup file in case something happens to the PC.

We will use the 1440 Print Mode as an example moving forward in this document.  Go to **Devices > Manage Print Modes**.  Select *White Color – Quality – 1440 Uni* and then select **Copy Print Mode**.



Rename the Print Mode with a unique and distinguishable name.  Select **Ok.**  The new print mode will now show in the list of installed print modes.  Double-Click the new Print Mode to change the settings.
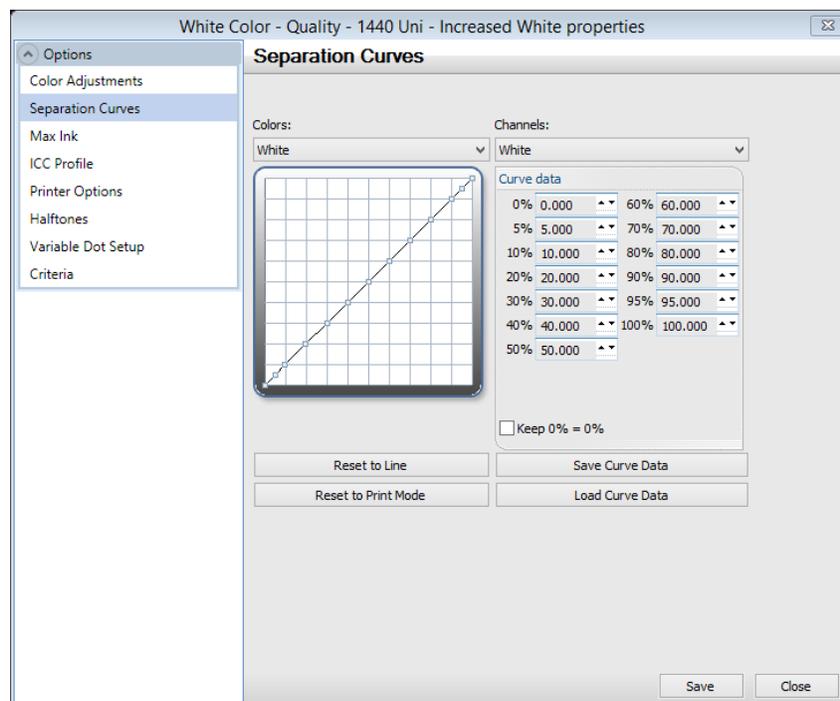
## II. Changing White Ink Density

There are two areas of a print mode that can be changed to output more white, assuming the print mode is not already outputting its maximum white ink volume.
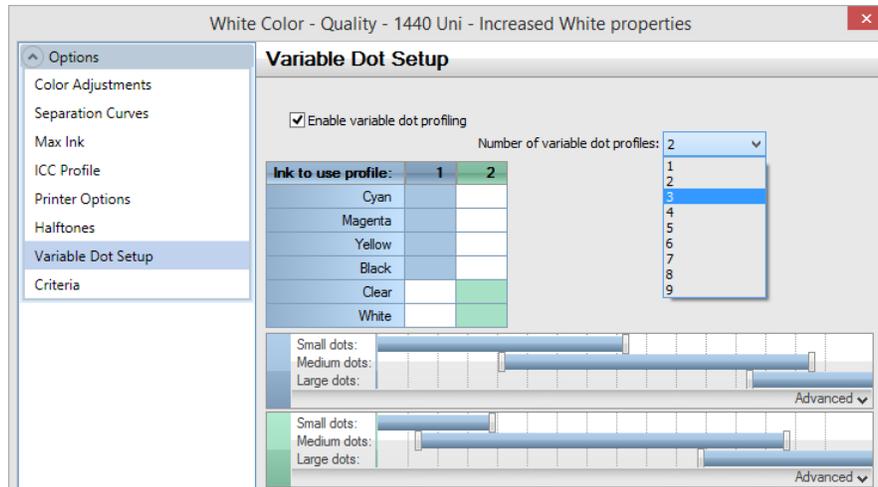
The first is the separation curve. The separation curve determines the percentage of ink that is printed. Select **Separation Curves** from the **Options** and then use the drop down to view the White Separation Curve.

You can see here that the Separation Curve is at 100% or at its max percentage. If the curve happened to be below 100%, you can select **Load Curve Data** and navigate to the Data Folder on your dongle which has a folder of saved Sep Curve data. If you simply want to increase the Separation Curve to 100%, just select **Reset To Line**.
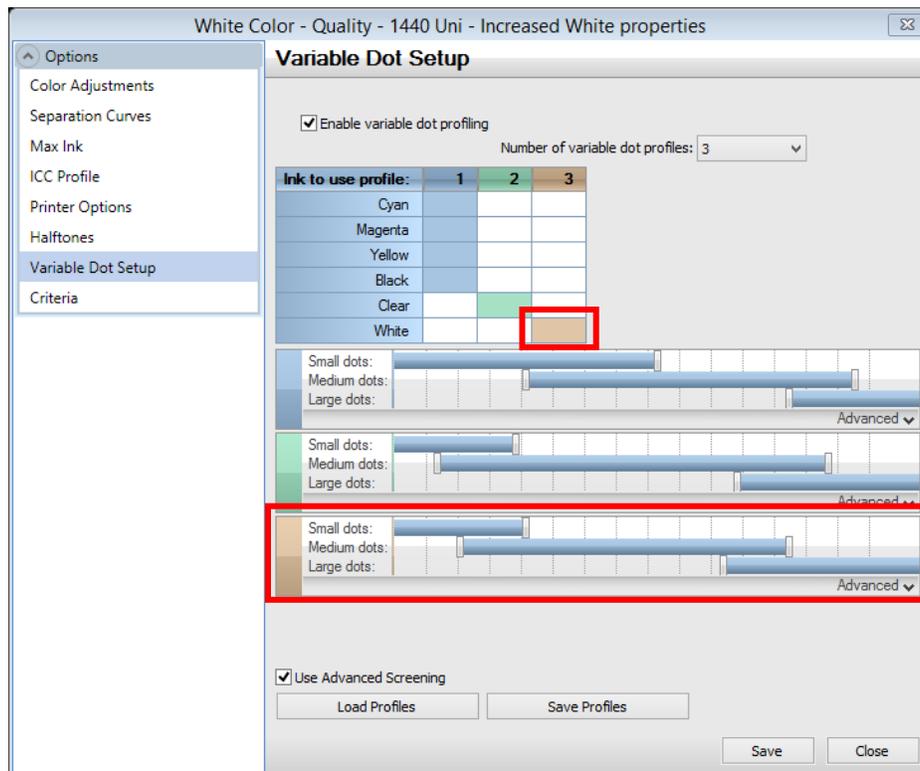
Along with the Separation Curve, you can also change the Variable Dot Setup to increase white ink volume.  Select **Variable Dot Setup**.  Before going any further, a good rule to follow is to always put the White Channel on its own variable dot profile.  Do this by increasing the number of variable dot profiles by one.
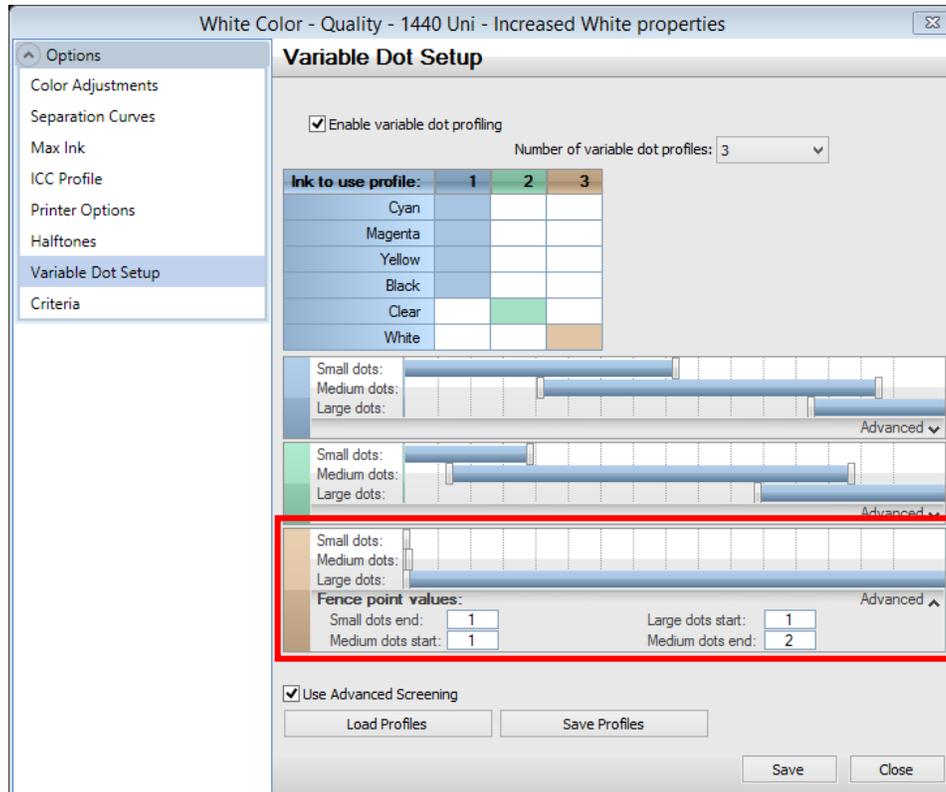


Change the White Channel to the newly created dot profile by clicking where the brown rectangle is shown below.  The White Channel is now on its own dot profile.

You can now use the sliders to increase or decrease the amount of small, medium and large dots that are printed.  Usually, when increasing white ink volume, you will want to use more or all large dots.  The below image shows the setup for all large dots.  You can also select **Advanced** and input the numbers shown below.



## III.    Save the Custom Print Mode

Once you are finished changing all the necessary settings, select **Save** to save them to the custom print mode.  This print mode can then be used for any job in the RIP by double-clicking the job and changing the Print Mode from the drop down menu.