

Xerox[®] DocuColor[®] 8080 Digital Press

Calibration and Profiling with ILS on EX Print Server

The Automated Color Quality Suite (ACQS) on your Xerox[®] DocuColor[®] 8080 Digital Press includes software and an Inline Spectrophotometer (ILS). This suite and the ILS assembly work with your print server to provide unique calibration and profiling capabilities:

ACQS Function	EX Print Server, Powered by Fiery [®]
Color Calibration with ILS	Semi-Automated <ul style="list-style-type: none"> • Operator initiated • Scans and measures targets automatically without an external spectrophotometer • Resets color tables to original values to maintain consistent color
Profiling with ILS	<ul style="list-style-type: none"> • Operators can create “destination” or “output” profiles without having to scan targets with an external spectrophotometer. The press prints color targets while the ILS measures them. The system then develops a map so that output colors can be produced that accurately replicate a known standard such as GRACoL or SWAP. The mapping is written into the profile for the type of media and line screening used.

Performing a Color Calibration with ILS

Daily calibration keeps your color consistent over time because a press may drift from its original color output. This happens because of normal use, changes in temperature and humidity and changes in paper. When you calibrate, you bring the press back to its original high-quality output.

1. Log on as System Administrator.
2. On the Job Center tab, click the **Calibrate** button at the top of the screen. The Calibrator window opens with a set of numbered steps.
3. From *Select Measurement Method* select **ILS** from the drop-down menu. The ILS Support window opens.
4. In the *Available Calibrations* window, select a profile to use for the paper you are calibrating on. Two default profiles are available with new systems and you can create new ones as needed. If you do not see an available profile that matches the paper on which you want to calibrate on, select **Create New** and first create a profile following the instructions on the next page. As the new profile is created, a calibration will also be performed for the stock selected.
5. For *Media Type*, select the **stock** you want to calibrate on.
6. For *Digital Press Mode*, select the **halftone setting** you typically use for the press. By default, 200 Dot Rotated is selected.

7. Verify that the stock selected under Media Type is loaded into a paper tray and select this tray in the *Paper Tray* drop-down menu.
8. Check the box for **Include warm-up sheets**.
9. Click **Continue** to begin the calibration.
A message window displays when the calibration process begins on the server.
When the calibration successfully completes, a “Success” message displays.
10. Click **OK** to return to the ILS Support window.
11. Click **Exit** to close the ILS Support window.
12. Click **Done** to close the Calibrator window.

Creating a Destination Profile with ILS

Colors can look different when printed on different stocks, especially stocks that have a different gloss or a different color. When a profile is created for each of these different stocks, the system develops a map so that the output colors will match a known standard. The mapping is written into a profile for the type of media and line screening being used. Once created, the custom profile can be applied to jobs. The profile automatically adjusts the output color for a job so that the color is accurate for the media being used. Profiles ensure accurate and consistent color across different media as well as the same media used at different times. Because they replicate color from a known standard such as GRACoL or SWAP, they also ensure accurate and consistent color across output from different presses.

When creating a Destination Profile, you use the same screens and most of the same steps as you use when performing a calibration. However, you must additionally name the Profile so that it can be selected and applied to jobs and calibrations.

1. Log on as System Administrator.
2. On the Job Center tab, click the **Calibrate** button at the top of the screen.
The Calibrator window opens with a set of numbered steps.
3. From the *Select Measurement Method* drop-down menu, select **ILS**.
The ILS Support window opens.
4. In the *Available Calibrations* area, click **Create New**.
The Create New window opens.
5. In the *Calibration Name* field, enter a meaningful **name for the profile** such as the paper type, weight and press mode.
6. From the drop-down menu, select the **Media Type** that you want to use for the profile.
7. From the *Digital Press Mode* drop-down menu, select the **halftone screening** for the profile.
200 Dot Rotated is the default.
8. Enter the **Recommended Paper** to be used with the profile after it is created.
9. Verify that the stock selected under Media Type is loaded into a paper tray and select this tray in the *Paper Tray* drop-down menu.
10. Select the number of patches to be printed and measured: 234, 928 or 1617. More patches will create a more accurate color profile, but will take slightly longer.
11. Check the box for **Include warm-up sheets**.

12. Click **Continue**. A status message displays when the profiling process begins on the server. The profile is created and will also automatically go through a calibration process. When the profiling successfully completes, a “Success” message displays. When complete, the newly created profile name displays in the *Available Calibrations* window.
13. Verify that the new profile is listed in the Available Calibrations window.
14. Click **OK** to close the message window.
15. Click **Exit** to close the ILS Support window
16. Click **Done** to close the Calibrator window.

Linking a Stock to a Destination Profile on EX Print Server

You can link a stock to a profile so that when the stock is used, the profile is automatically applied. This can save you time when managing jobs.

To link a stock with a profile:

1. On the Job Center tab, click **Paper Catalog**.
2. Right click the **stock** you want to link to a profile, and select **Edit**.
3. Click the **Settings** tab to select it.
4. Using the menus, select a **specific profile** to link to this stock. You can apply one profile to the front side of each page (Front Color Profile) and another profile to the back of the page (Back Color Profile). Generally, you would set the same profile for both sides.
5. Click **OK**.
6. Close all windows.

Applying a Destination Profile to a Specific Job on EX Print Server

Newly created profiles can be accessed and applied to jobs from Job Properties, Hot Folders and Virtual Printers.

To apply a profile from Job Properties:

1. Double-click the job to open **Job Properties**.
2. Click the **Color** button at the top of the window.
3. Click **Expert Settings**.
The Expert Settings window opens.
4. Select the **Output** tab.
5. From the *Default output profile* drop-down menu, select the **specific profile** you want to use.
6. Close all windows.