

# Xerox® Versant® 180 Press Calibrating & Profiling with the Fiery® Print Servers

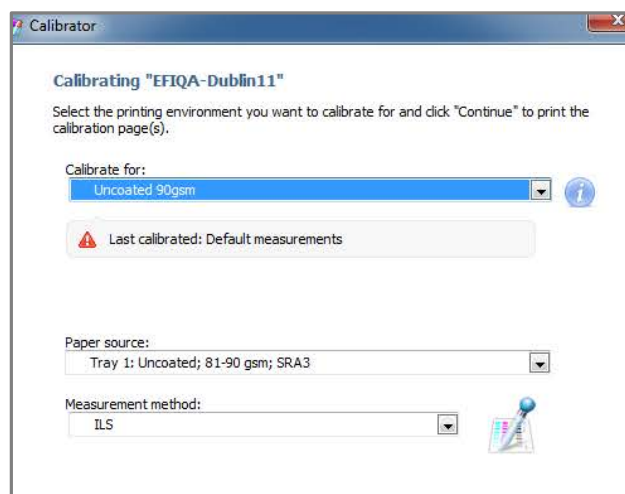


## Calibrating with the InLine Spectrophotometer on EX 180 Print Server

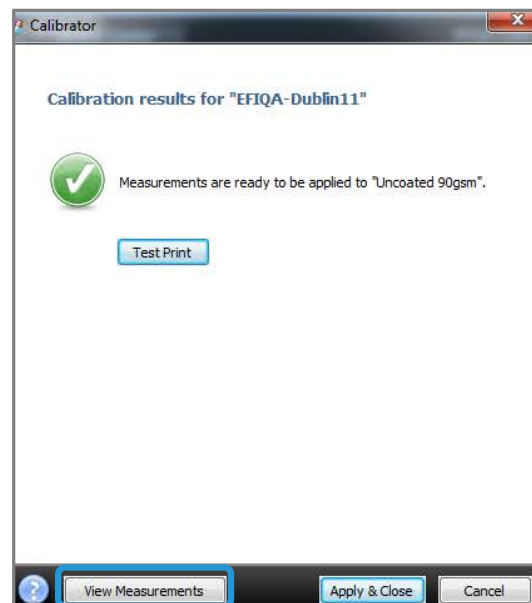
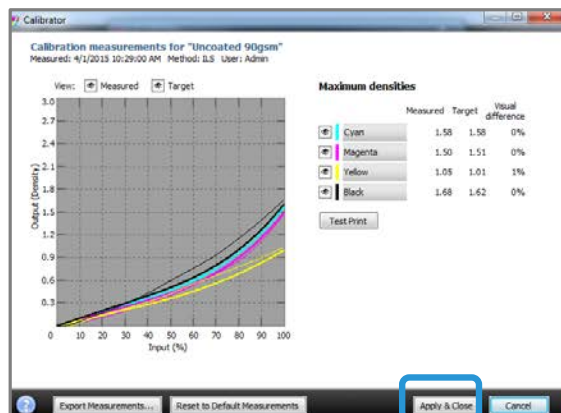
Daily calibration keeps your color consistent over time because a press may drift from its original color output. This happens because of normal use, changes in temperature and humidity and changes in paper. When you calibrate, you bring the press back to its original high-quality output. To use the InLine Spectrophotometer (ILS) for calibration, you must have the optional Performance Package installed on your system. This package requires the EX 180 Print Server. For the EX-i Print Server, you must use an optional hand-held spectrophotometer or use EFI's ColorCal function, and cannot use the ILS for calibration or profiling.

### To calibrate the EX 180 Print Server using the ILS:

1. Log on as System Administrator, if the logon is currently Operator.
2. From the *Job Center* tab, click the **Calibrate** icon at the top of the screen, or select **Calibrate** from the *Server* drop-down menu.
3. From the *Calibrate for:* drop-down menu, select the **profile** you want to use for this calibration. Several default profiles come with the server, but others can be created.
4. From the *Paper source:* drop-down menu, select the **tray** and **loaded paper** you want to calibrate on.
5. From the *Measurement method:* drop-down menu, select **ILS**, if not already selected.
6. Click **Continue** to begin the calibration.  
A status message displays indicating the calibration steps occurring for the press.  
When complete, a message displays: *Measurements are ready to be applied to "[paper selected]"*
7. Click **Test Print** to print a Comparison Page with images using both the old and new settings side-by-side. This lets you visually inspect the results before applying them.
8. When the prints are finished, click **OK** to the "Comparison page printed successfully" message.
9. Collect the test prints and inspect them.



10. You can optionally view the calibration measurements on a graph by selecting **View Measurements**.
11. Click **Apply & Close** to apply the calibration results.

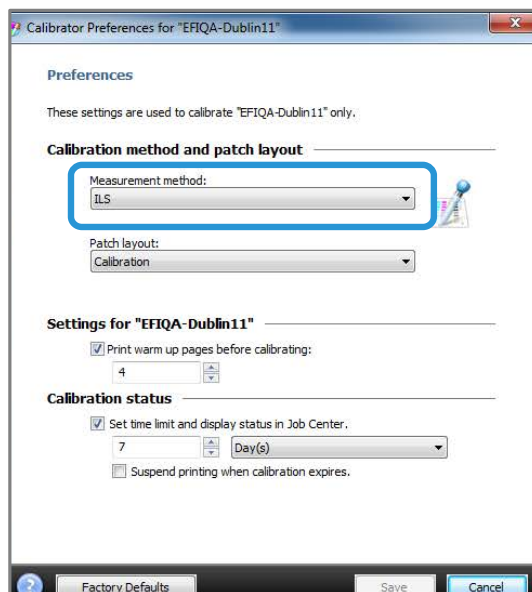


## Profiling with the InLine Spectrophotometer on EX 180 Print Server

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 a stock, the system develops a map so that the output colors on a specific media will match a known standard such as GRACoL or SWAP. The profile automatically adjusts the output color for a job so that the color is accurate for the media being used. To use the InLine Spectrophotometer (ILS) for calibration, you must have the optional Performance Package installed on your system. This package requires the EX 180 Print Server. For the EX-i Print Server, you must use a hand-held spectrophotometer—the ES-1000 or ES2000 to create profiles.

### To create a new profile on the EX 180 Print Server using the ILS:

1. Log on as System Administrator, if the logon is currently Operator.
2. Select **Device Center** from the **Server** menu.
3. Under **General**, select **Tools**.
4. In the **Calibrate** area of the window, click the **Preferences** button.
5. In the **Calibration method and patch layout** area of the window, use the **Measurement method** drop-down menu to select **ILS**, if not already selected.
6. You can also optionally check the box to print warm up pages and set a time limit after which a message will display in Job Center to recalibrate.
7. Click **Save** if you made changes, otherwise select **Cancel**.
8. On the Tools window, in the Calibrate area, click the **Manage** button.
9. Click **(+) Create New** on the upper-left of the screen.



10. Select the calibration set that closely matches the media being used for this process. For example, if you are profiling for a gloss cover stock, select that option. If you are profiling for an uncoated stock, select that option. You are only making this selection to populate the next screen with media properties. By selecting an option close to the media you are profiling, you will not have to set as many parameters on the next screen.

11. Click **OK**.

12. A unique default name has been entered for your profile, based on the previous media selection. Accept this name or change it if you want a different name for the new profile.

13. Click the **Properties** button.

14. Select the **Media** tab.

15. Select the media properties for the paper you are profiling. The defaults selected are based on the media you selected in step 9, but you can now change them. The **weight**, **size**, and **coating** of the entries on the Media tab should be set to the weight, size, and coating of the paper you are profiling.

16. Click **OK** to the Properties window.

17. Click **Continue** on the Calibrator window.

18. From the *Paper source* menu, select the **tray** that contains the paper you are using.

19. Click **Continue**.

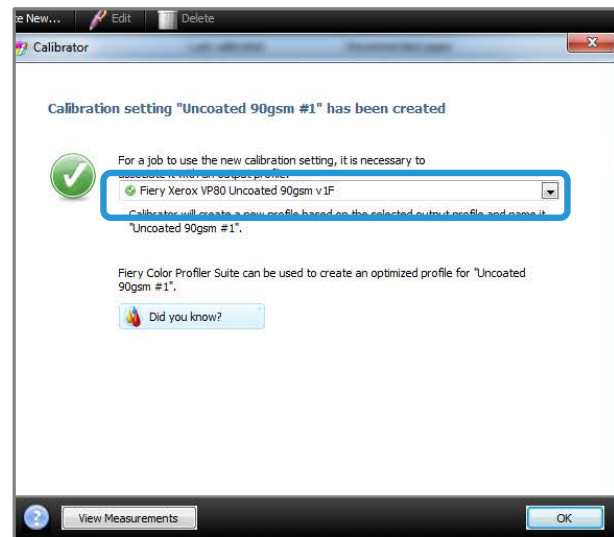
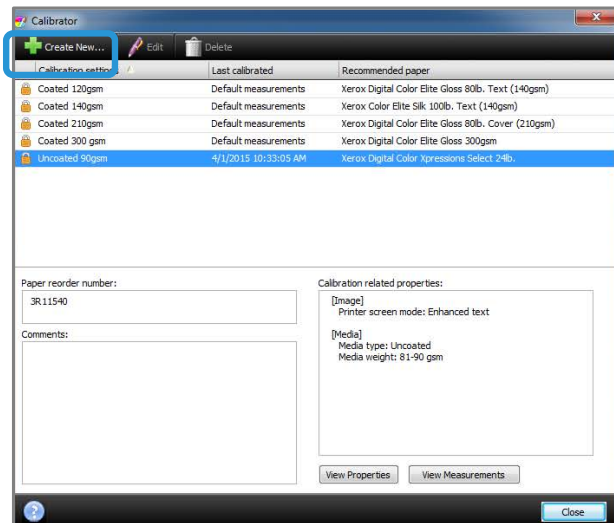
Targets are printed and scanned and then a message indicates that a calibration setting has been created.

20. Use the dropdown menu to associate the calibration setting with an existing output profile.

21. Click **OK** to complete the process.

You can now see the new profile that you created on the Calibrator window.

22. Click **Close**.



## Updating an existing profile with the InLine Spectrophotometer

To update an existing profile on the EX 180 Print Server using the ILS:

1. Log on as System Administrator, if the logon is currently Operator.

2. From Job Center, click the **Calibrate** button.

3. From the *Calibrate for* menu, select the **profile** you want to update.

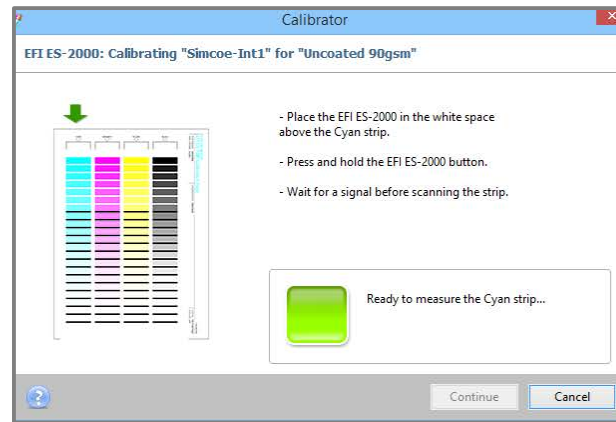
4. Select the **Paper source** for the media to be re-profiled.

5. For *Measurement method*, ensure that **ILS** is selected.

6. Click **Continue**.

A process bar indicates stages of the profiling process.

7. When the process completes, you have 4 options: View Measurements (see a graph of the profile); Test Print (apply the settings to a test print to visually check the result of the profile); Apply and Close (activate the new profile and close the window) or Cancel (do not implement the new profile). Select an option to view, test, activate or cancel the profile.



## Calibrating the EFI Print Servers using a hand-held spectrophotometer

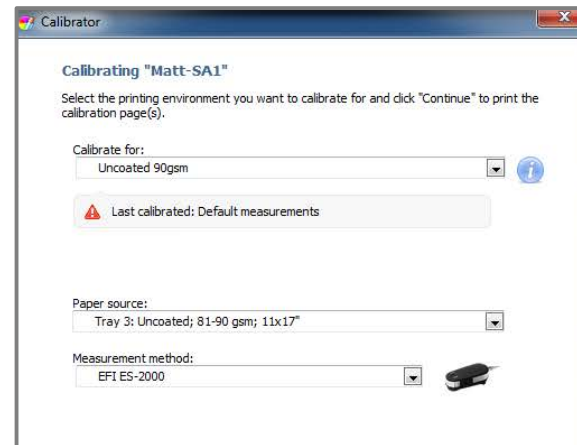
To calibrate the EX 180 or EX-i 180 using the ES-1000 or ES-2000:

1. Log on as System Administrator, if the login is currently Operator.

2. Check to make sure that the spectrophotometer is connected to the USB port on the print server.

3. From the Job Center tab, click the **Calibrate** icon at the top of the screen, or select **Calibrate** from the *Server* drop-down menu.

4. From the *Calibrate for:* drop-down menu, select the **profile** you want to use for this calibration. Several default profiles come with the server, but others can be created.



5. From the *Paper source:* drop-down menu, select the **tray and loaded paper** you want to calibrate on.

6. From the *Measurement method:* drop-down menu, select your spectrophotometer (EFI ES-1000 or ES-2000).

7. Click **Continue** to begin printing the target. A progress bar indicates that the press is warming up. The calibration target is then printed and a message displays to indicate that the calibration page has printed successfully.

8. Click **OK** to the message, "Calibration page printed successfully."

9. Place the ES-1000 or ES-2000 in its cradle and press the button on the side of the device for about 8 seconds – until the screen changes on the print server to read, "Ready to measure the Cyan strip."

10. Place the calibration target on a flat surface with several sheets of white paper beneath it.

11. Place the ES-1000 or ES-2000 in the white space above the Cyan strip.

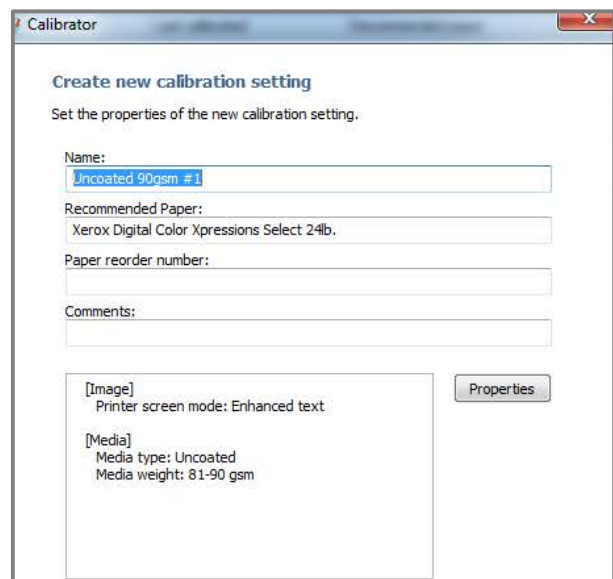
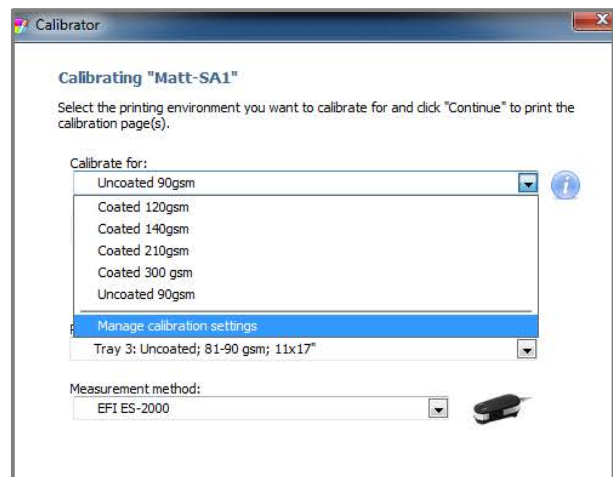
12. Press and hold the button on the device for 3 seconds and then scan the strip. Release the button on the white area when you reach the other side of the strip.

13. Repeat steps 11 and 12 for the other three strips, as shown on the screen. After the last strip is scanned, a message displays “Measurements completed successfully”.
14. Click **Continue**.
15. Click **Test Print** to print a Comparison Page with images using both the old and new settings side-by-side. This lets you visually inspect the results before applying them. When the prints are finished, click **OK** to the message.
16. Collect the test prints and inspect them.
17. You can optionally select **View Measurements** to see the calibration data.
18. Click **Apply & Close** to apply the calibration results.

## Profiling on the Fiery Print Servers with a hand-held spectrophotometer

To create a new destination profile on the EX 180 or EX-i 180 using the ES-1000 or ES2000:

1. Log on as System Administrator, if the logon is currently Operator.
2. Check to make sure that the spectrophotometer is connected to the USB port on the print server.
3. From the Job Center tab, click the **Calibrate** icon at the top of the screen, or select **Calibrate** from the **Server** drop-down menu. The Calibrator window opens.
4. From the *Calibrate for:* drop-down menu, select **Manage calibration settings**.
5. Click **(+) Create New** on the upper-left of the screen next to the green plus sign.
6. From the *Start with properties from the selected calibration setting*, select a **calibration to use** or select **Server default**. Select the paper that most closely matches the paper on which you are calibrating.
7. Click **OK**.
8. In the **Name** field, enter a meaningful **name for the profile** such as the paper type, weight and press mode—or accept the default entered by the system.
9. Enter a description of the **Recommended Paper** for this profile (optional).
10. Enter the **Paper reorder number**, if desired (optional).



11. Click the **Properties** button.
12. Select the **Media** tab.
13. Select the media properties for the paper you are profiling. The defaults selected are based on the media you selected in Step 6, but you can now change them. The weight, size, and coating of the entries on the Media tab should be set to the weight, size, and coating of the paper you are profiling.
14. Click **OK** to the Properties window.
15. Click **Continue**.
16. From the drop-down menu, select the **Paper source** that you want to use for the profile.
17. Verify that the stock selected under Paper source is loaded into the paper tray.
18. From the *Measurement method*: drop-down menu, select the **ES-1000** or **ES-2000**, if it is not selected by default.
19. Click **Continue** to begin the printing a calibration page for the profile. When the page completes printing, a message displays: "Calibration page printed successfully".
20. Click **OK** to the message.
21. Place the ES-1000 or ES-2000 in its cradle and press the button on the side of the device for about 8 seconds – until the screen changes on the print server to read, "Ready to measure the Cyan strip."
22. Place the calibration target on a flat surface with several sheets of white paper beneath it.
23. Place the ES-1000 or ES-2000 in the white space above the Cyan strip.
24. Press and hold the button on the device for 3 seconds and slide the spectrophotometer over the strip. Release the button on the white area when you reach the other side of the strip.
25. Repeat steps 23 and 24 for the other three strips as shown on the screen.  
After the last strip is scanned, a message displays "Measurements completed successfully".
26. Click Continue.
27. From the drop-down menu, select an existing output profile to associate with the new profile.
28. Click **OK**.
29. Close all windows.

## Linking a stock to a destination profile on the EFI Print Servers

You can link a stock to a profile so that when the stock is used a specific profile is automatically applied. This can save you time when managing jobs. To do this, the stock must be listed in the Paper Catalog.

### 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. Using the menus on the bottom of the window for *Front Color Profile* and *Back Color Profile*, 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.
4. Click **OK** to the Edit window.
5. Close the Paper Catalog.