



**Flanders
Scientific
Inc.**

Colorimeter Offset Matrix Creation

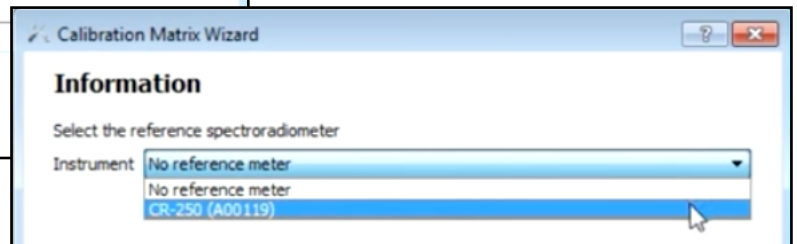
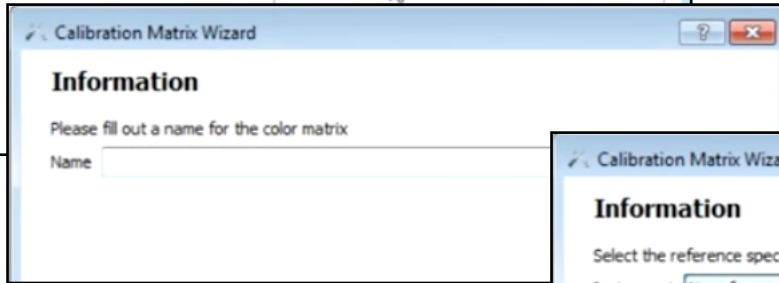
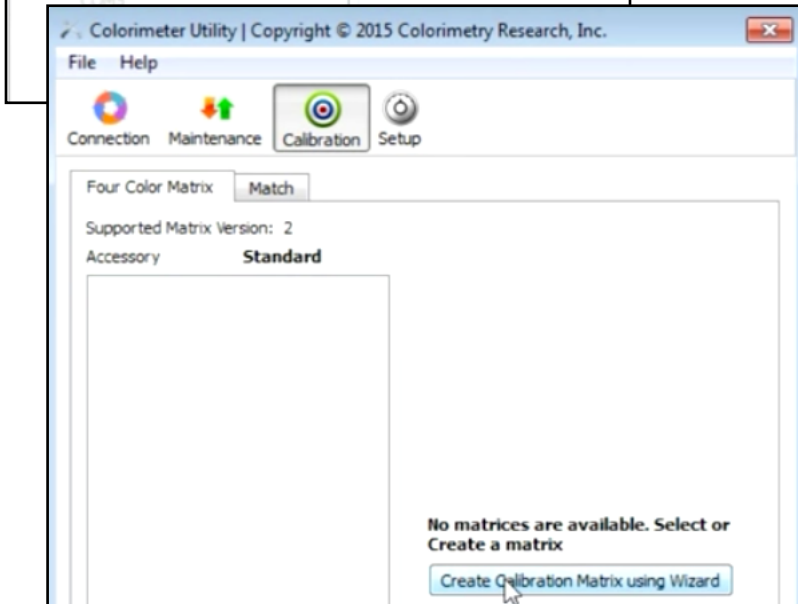
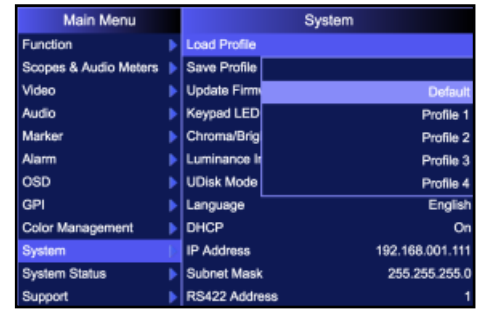
CR100 & CR250 using CRI Utility

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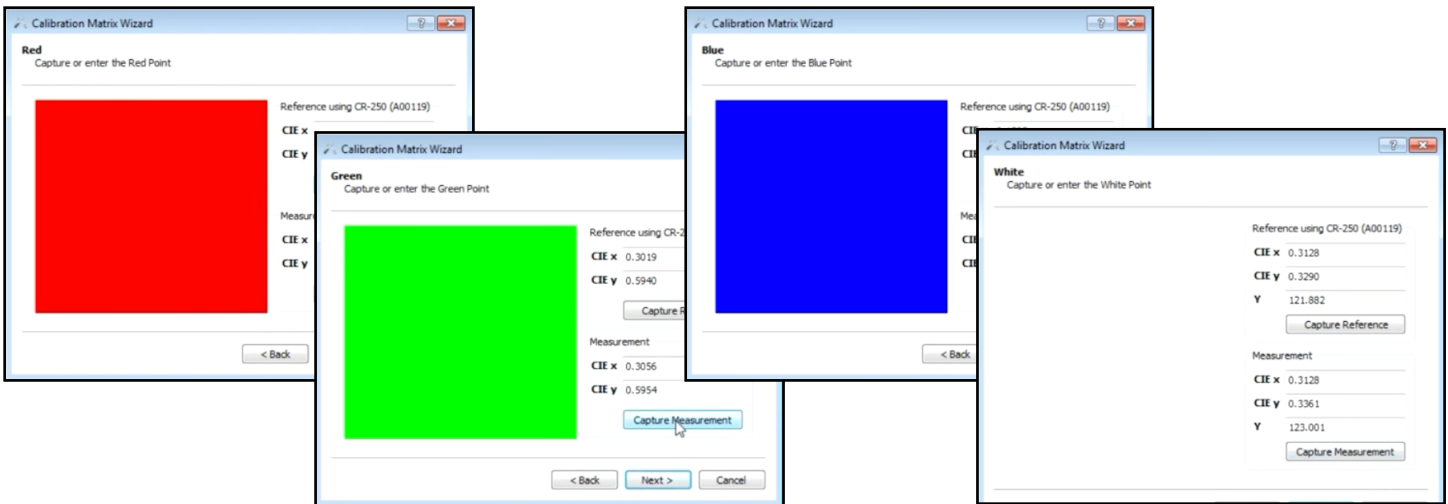
Begin by setting your FSI monitor to the default profile.
 Menu > System > Load Profile > Default.
 When prompted, confirm by selecting Yes.

Bypass the 3D LUT in the monitor's Color Management menu.
 Color Management > LUT Bypass > 3D LUT.

Connect your CR-100 and CR-250 to your computer via USB.



- Start the CRI Colorimeter Utility program.
- Select the CR100 in the Meters window.
- Select the Calibration button at the top of the program.
- Select Create Claibration Matrix using Wizard.
- Give the Matrix a name.
- Select reference spectroradiometer (CR-250).



Take measurements using the CR250 and CR100 using the Capture Reference and Capture Measurement buttons in the Calibration Matrix Wizard. Select next to advance the wizard. You will measure Red, Green, Blue, and White test patches.

When your matrix is complete, select finished to close the Calibration Matrix Wizard.

You can test your matrix by selecting it in the Four Color Matrix list and pressing the Test button. Press the Capture Measurement button to once again measure Red, Green, Blue, and White test patches this time with the offset matrix applied to the CR100.

Reference		Reference	
	CIE x	CIE y	Y
White	0.3128	0.329	121.882
Red	0.6338	0.3296	
Green	0.3019	0.594	
Blue	0.1505	0.0597	
Measurement		Measurement	
	CIE x	CIE y	Y
White	0.3128	0.3361	123.001
Red	0.6298	0.333	
Green	0.3056	0.5954	
Blue	0.152	0.067	
R-Matrix (Ver. 2)			
	0	1	2
0	1.06805	-0.0440809	-0.00748656
1	0.0269162	0.977453	-0.0111052
2	-0.00220618	0.00295266	1.0319