



**Flanders
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FSI BoxIO & ColourSpace Calibration

Using FSI BoxIO / ColourSpace / Probe for Third-Party Display Calibration

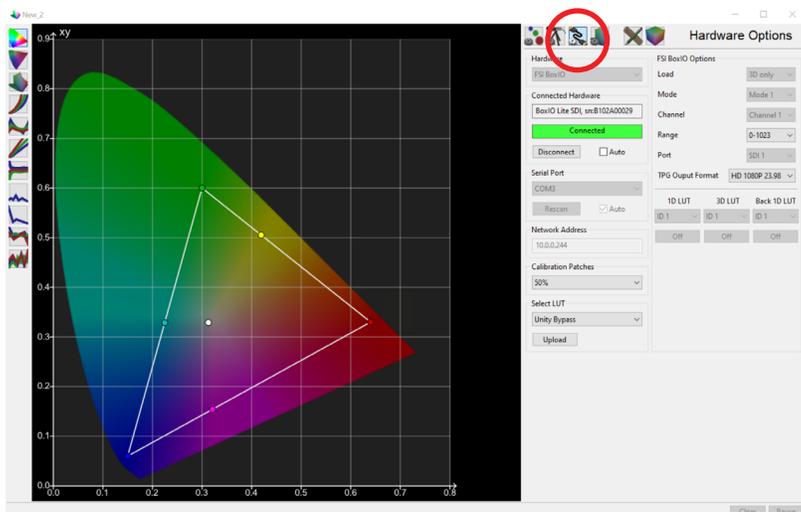
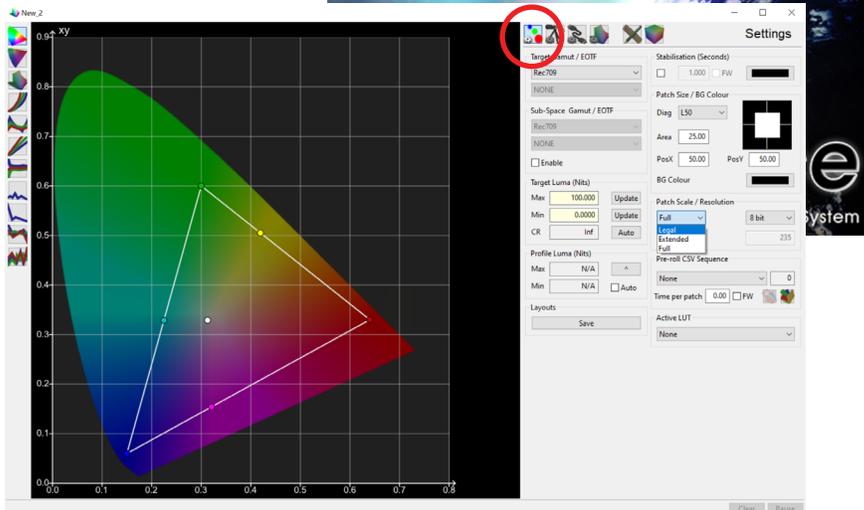
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Start ColourSpace and click the profiling icon.



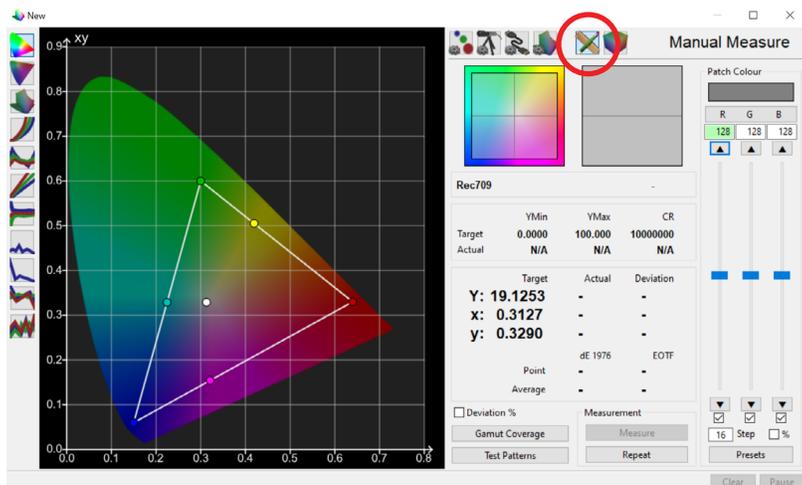
From the profiling window, select the Settings tab and set Patch Scale to the desired range.



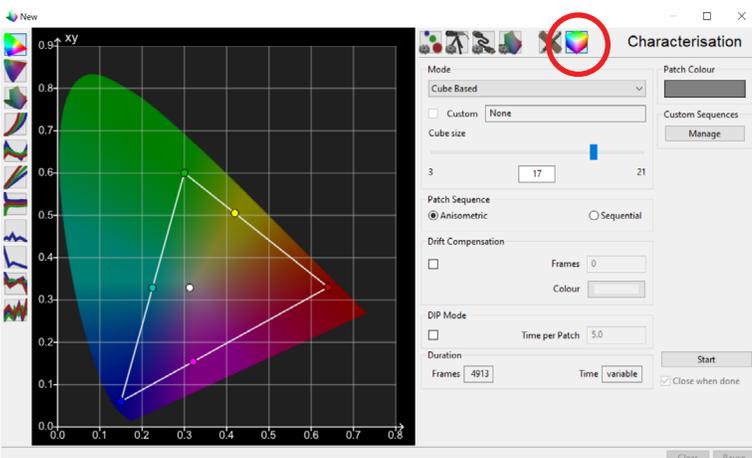
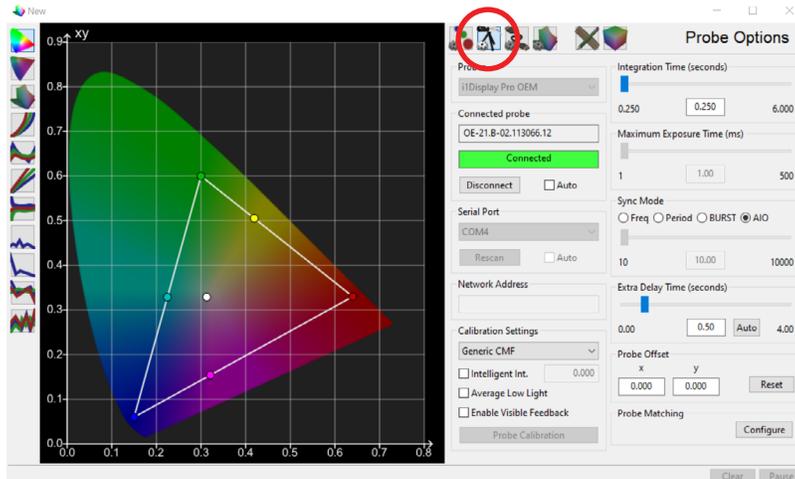
Now, select the Hardware Options tab. From the Hardware drop-down menu select FSI BoxIO and enter the IP address of the BoxIO into the Network Address field, then click connect.

Under FSI BoxIO Options set Load to 3D Only, Mode to Mode 1 and Range to 0-1023. Ensure that each LUT selection is set to OFF. Then select the desired LUT ID position in the 3D LUT drop down. Below the connect button you will see a drop-down menu labeled Calibration Patches, set this option to the desired patch size.

Click on the Manual Measure button and move the sliders to ensure test patterns are being properly generated. Set the sliders to 128,128,128 to display grey on screen.



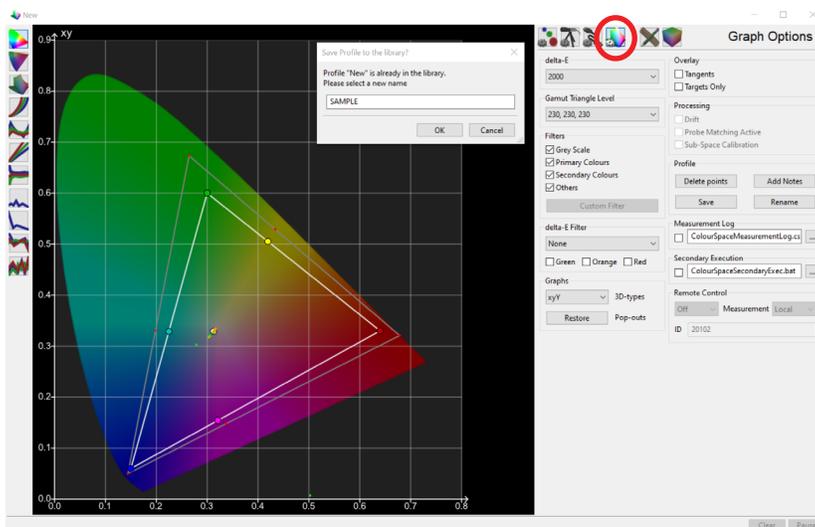
Now, click on the probe options button in ColourSpace. From the Probes menu select the probe of your choice. Then press connect.



Click on the Display Characterization icon, then select a desired profiling mode. Grey Ramp RGB Large (quick) or Cube Based Cube Size 17 (slow) are the suggested profiling modes. Generally speaking larger profiles will yield better results. If short on time, we would suggest you use Grey Ramp RGB Large. See the appendix for more details.

Ensuring that the probe is positioned at the center of the monitor, press the Start button to begin profiling.

Once your profile completes, click on the graph options tab then select Rename to give the profile an easy to identify name, then press save to save the completed profile.

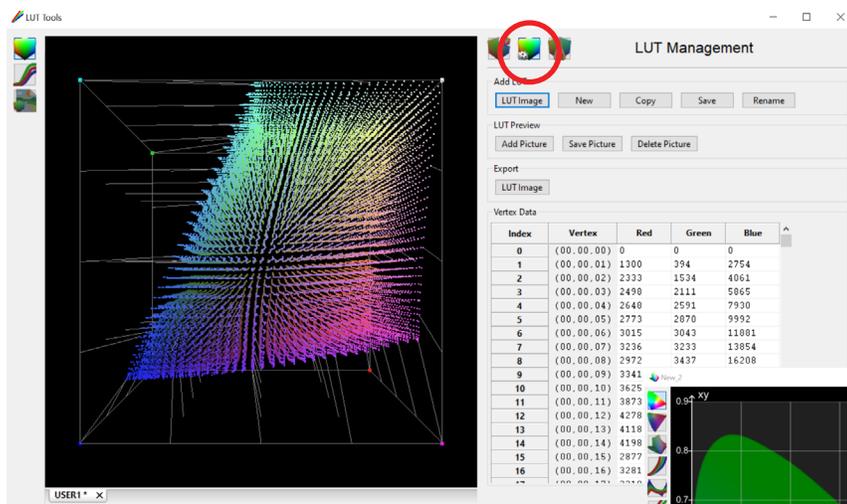
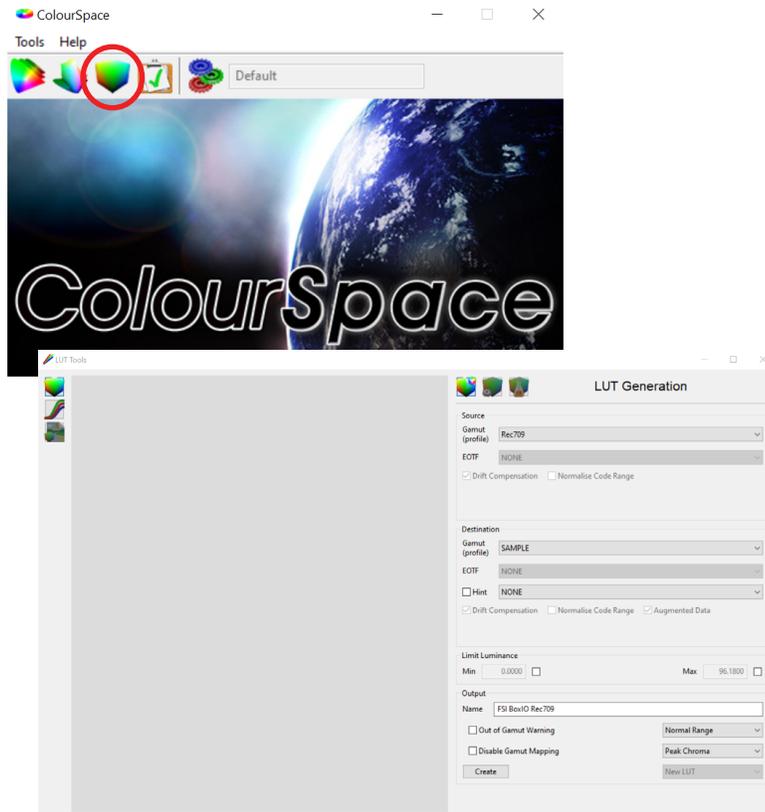


Once the profile is saved, open a LUT Tools window in ColourSpace. Ensure that you do not close out of the Profile window or you will need to reconnect to BoxIO when saving the LUT.

From the LUT Generation tab select your target color space from the Gamut (profile) drop-down menu in the Source area.

In the Destination area select the calibration profile you just saved.

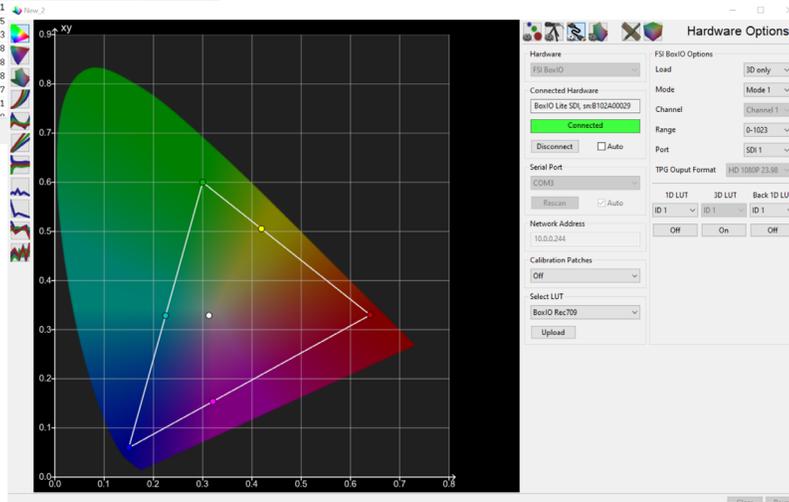
Then, click Create to generate your calibration LUT.



Once your LUT is generated click on the Manage LUT icon, then select save.

Next, click on the Hardware Options icon.

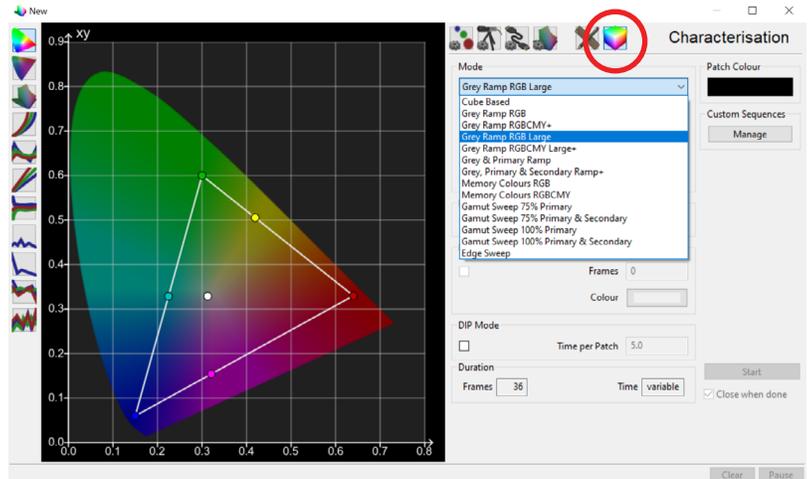
From the Select LUT dropdown choose the LUT just saved. Then click Upload. This will save the LUT to the desired position selected previously. Your LUT is now saved and active on BoxIO.



Appendix 1: Tips and Tricks

Short on Time?

If you have time and want to generate optimal results a large test patch sequence (Cube Based Cube Size 17) is ideal. However, ColourSpace's Grey Ramp RGB Large profile can generate extremely good calibration results very quickly. Keep in mind that the more linear the display is the better the results will be. You can start the Grey Ramp RGB Large profile by following the steps above. On the Display Characterization page select Grey Ramp RGB Large from the Mode drop down and complete the remaining steps.



Advanced Workflows

Custom 1D + 3D LUT and other advanced workflows are possible with FSI BoxIO. For questions or details on advanced settings, workflows, and capabilities please contact our support team for personalized assistance: Support@FlandersScientific.com