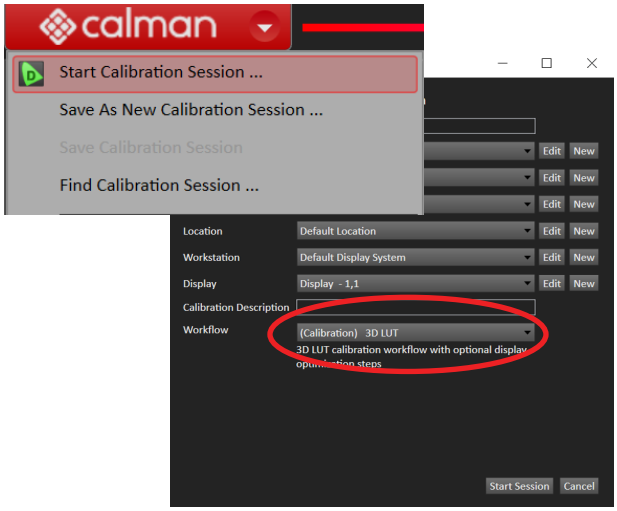
Flanders Scientific Inc.

FSI BoxIO & Calman Calibration

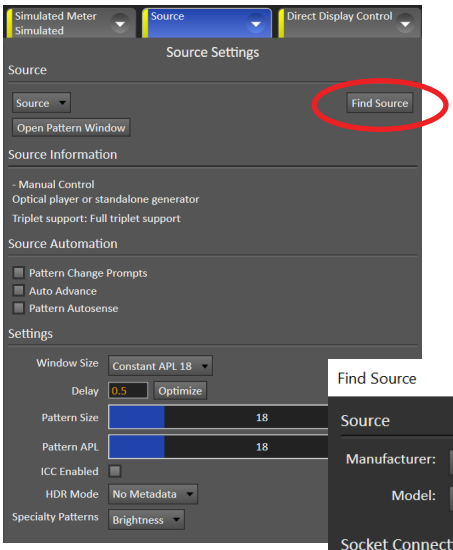
Using FSI BoxIO / Calman / Probe for Third-Party Display Calibration

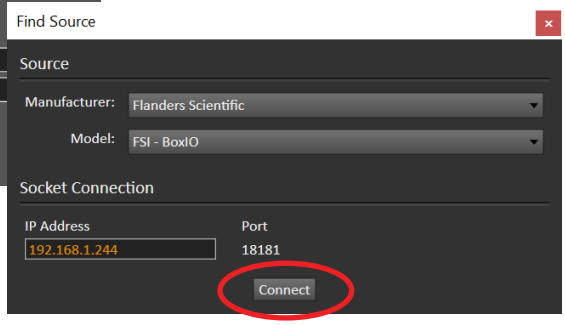
Flanders Scientific, Inc.
6215 Shiloh Crossing
Suite G
Alpharetta, GA 30005
Phone: +1.678.835.4934
Fax: +1.678.804.1882
E-mail: Support@FlandersScientific.com
www.FlandersScientific.com

Start Calman.



In the upper lefthand menu select Start Calibration Session, then select (Calibration) 3D LUT as your workflow.

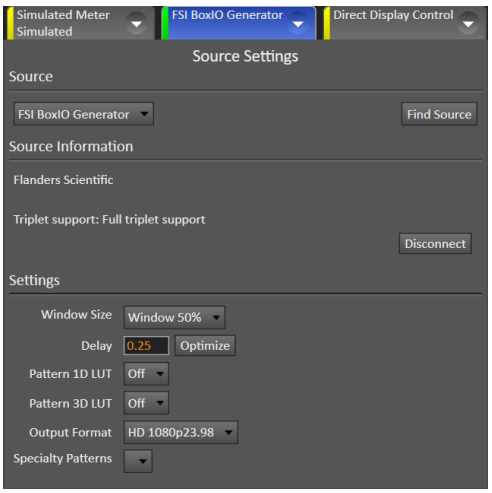




From the Source Tab in Calman click Find Source.

In the pop-up menu select Flanders Scientific and FSI-BoxIO. Enter the IP address of the BoxIO, then click connect.

Once Connected, set window size to desired size. Make sure that Pattern 1D LUT and Pattern 3D LUT are set to off.



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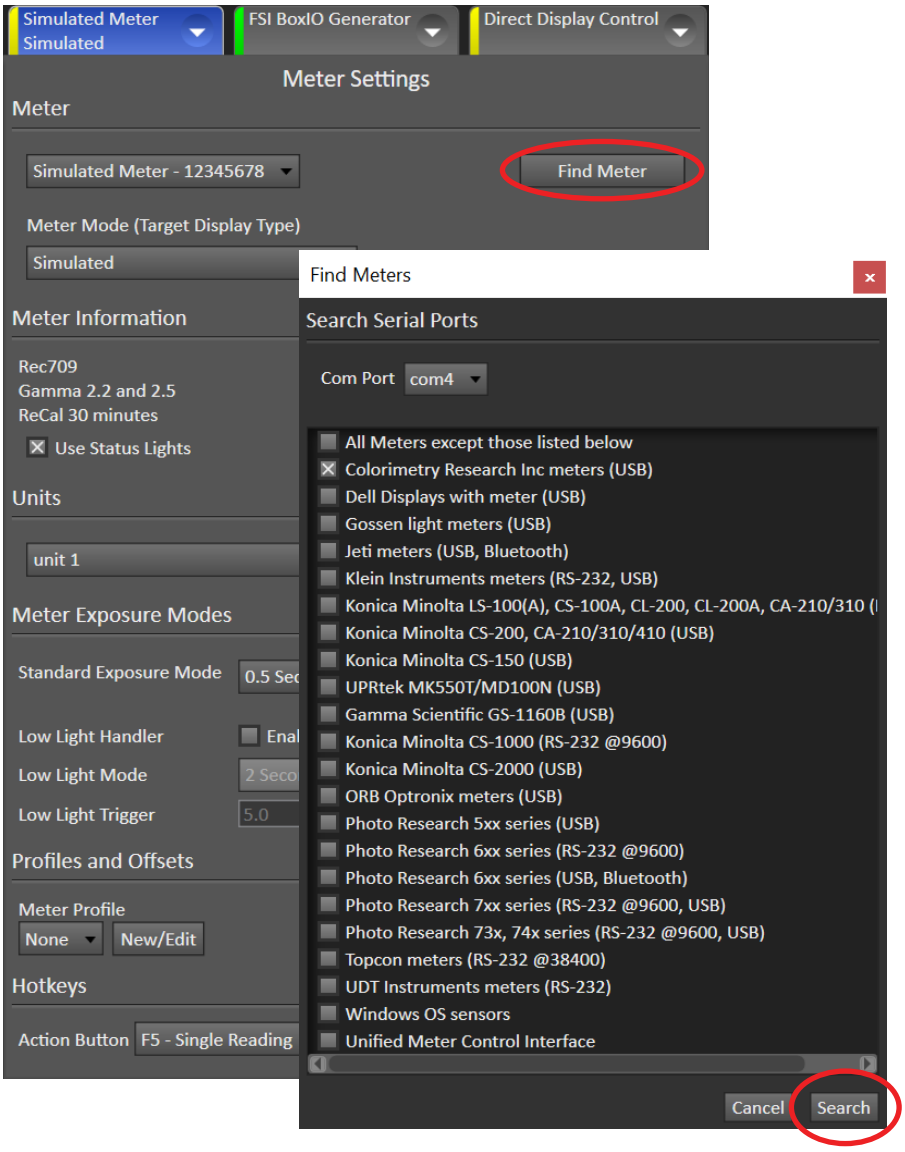
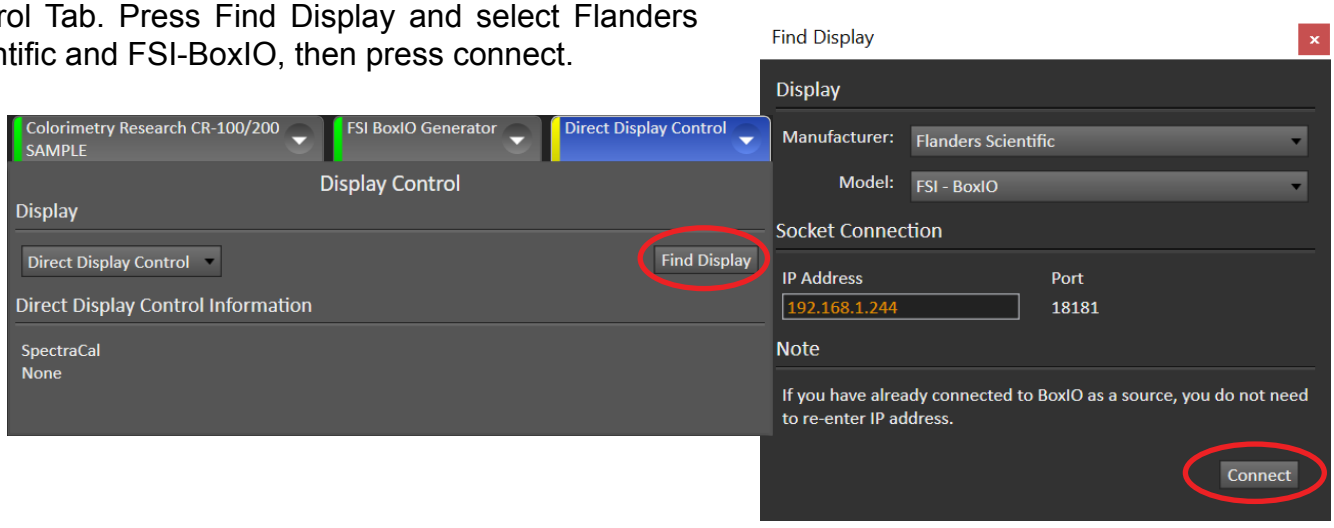
Click on the Meters tab. Press Find Meter, then select the meter of your choice and press Search.



Once the meter is connected, select the Direct Display Control Tab. Press Find Display and select Flanders Scientific and FSI-BoxIO, then press connect.



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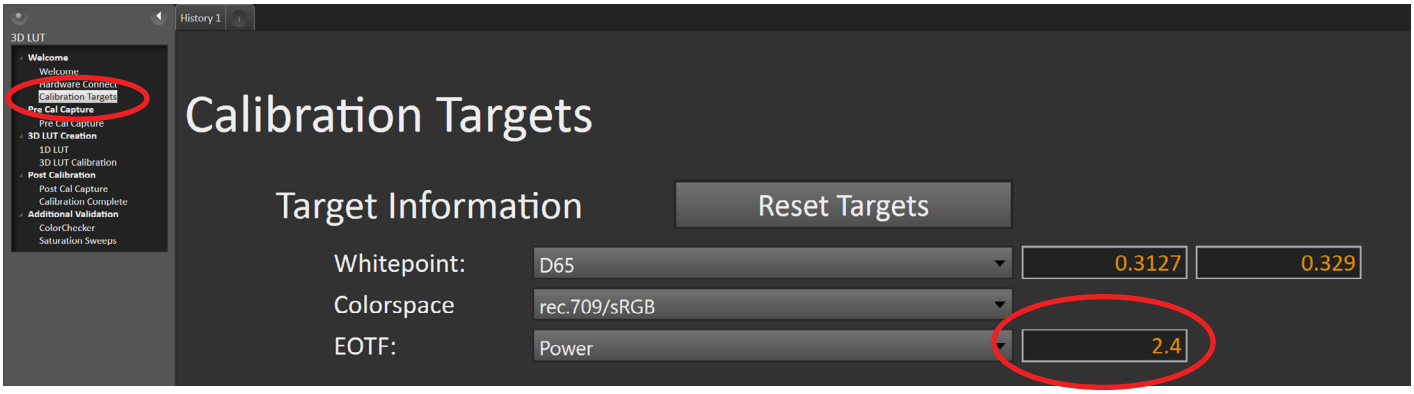
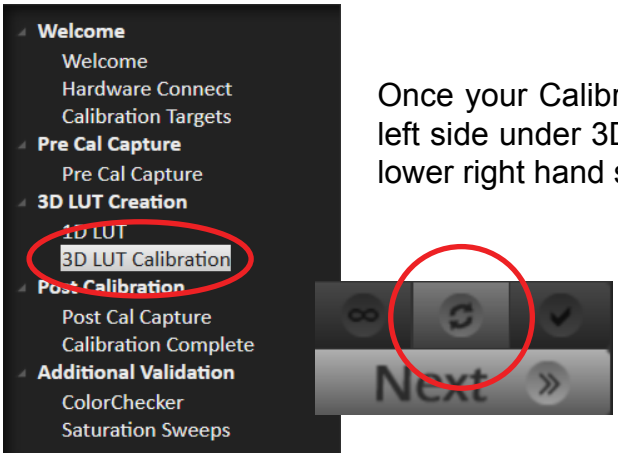
Click on Calibration Targets on the left side and set your Calibration Standard, or create your own. We recommend changing EOTF to Power 2.4.

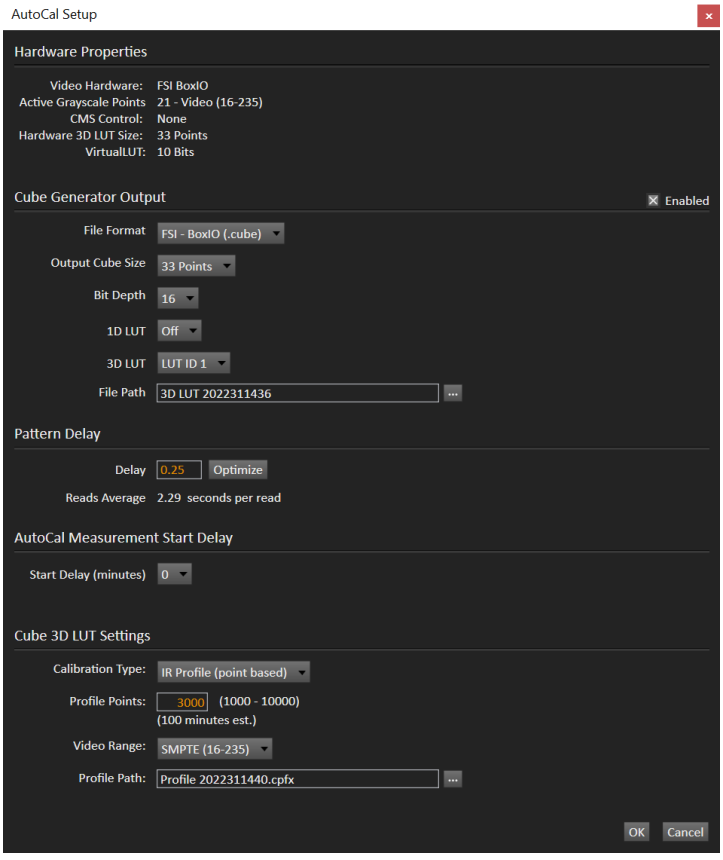




Once your Calibration Standard is set, click on 3D LUT Calibration on the left side under 3D LUT Calibration, then click on the AutoCal button on the lower right hand side.

In the AutoCal Setup Window set 3D LUT to the LUT ID position that the 3D LUT will be saved to on the BoxIO.

Select your calibration type. All selections are valid, but generally speaking larger profiles will yield better results. If you are short on time we suggest you use Calman's Lightning LUT capability instead of a smaller display characterization. Select your desired Video Range. See the appendix for more details.



Verify your probe is centered in front of the screen and select OK from the AutoCal Setup window in Calman to begin the profiling process. Once the profile is complete your LUT file will be stored in the LUT ID position previously selected.

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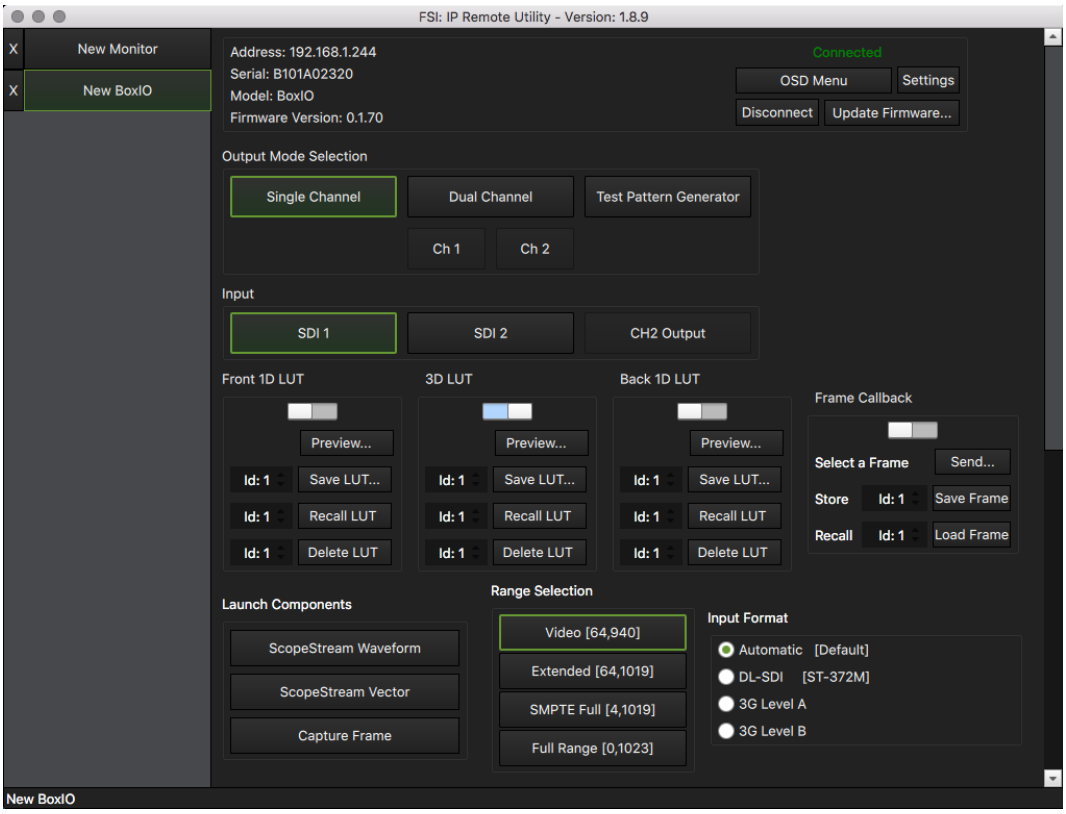
Using the IP Remote Utility, you will need to activate the LUT that was just created and stored on BoxIO.

Open the IP Remote Utility and connect to BoxIO. Once connected, activate the 3D LUT. If the LUT was stored in a position other than LUT ID 1 select the LUT ID position next to Recall LUT. Then, click Recall. Your LUT will now be active.



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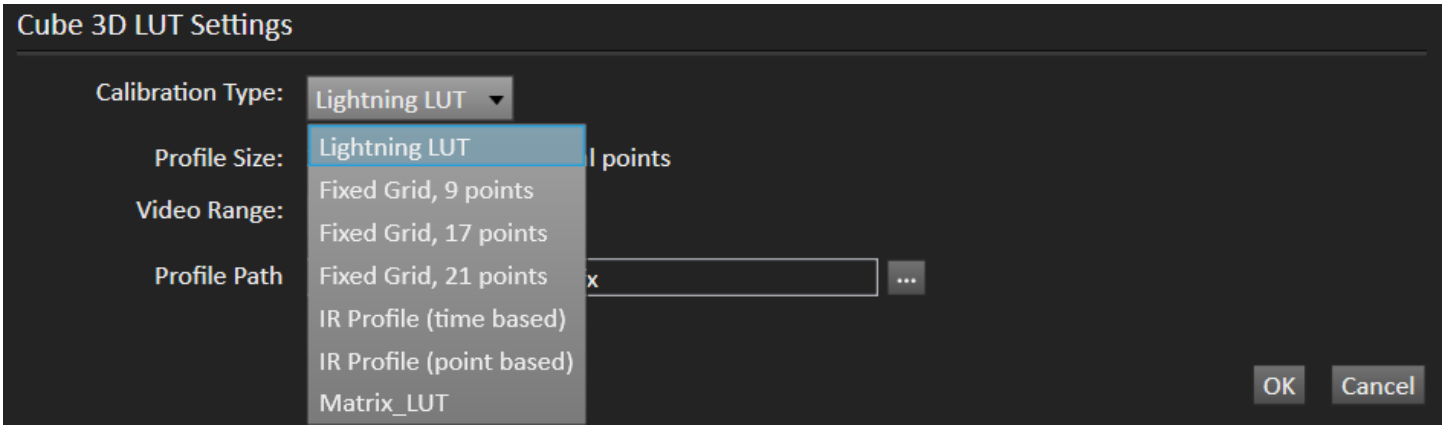
Appendix 1: Tips and Tricks

Short on Time?

If you have time and want to generate optimal results a large test patch sequence is ideal (3000+ patches). However, Calman's Lightning LUT 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 Lightning LUT by following the steps above. On the AutoCAL Setup page select Lightning LUT from the Calibration Type 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 capabilites please contact our support team for personalized assistance: Support@FlandersScientific.com

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