

Quantum Data Video Generator QD 70x/80x Series CalMAN Setup Guide

The Quantum Data 70x and 80x Video Generator test patterns can be automatically controlled by CalMAN Display Calibration Software. The generators provide test patterns for visual performance evaluation, grayscale luminance ramp calibration, color gamut (CMS) calibration, and validation measurements of white, primary, and secondary luminance ramps. These generators do not provide RGB triplet support.

These generators cannot provide test patterns for saturation sweeps, ColorChecker patterns, or 3D LUT calibration.

Note: The QD804B controls its window pattern size and the luminance/color of the window, but does not control the background of the window pattern. When you select APL patterns or the Window 4-40 pattern with the 804B, it produces a constant black background instead of the expected background.

Required CalMAN Version:

- 5.6.0 or later

Recommended CalMAN Workflows:

- All measurement and calibration workflows except ColorMatch and Color Cube.

Required Quantum Data Generator Firmware:

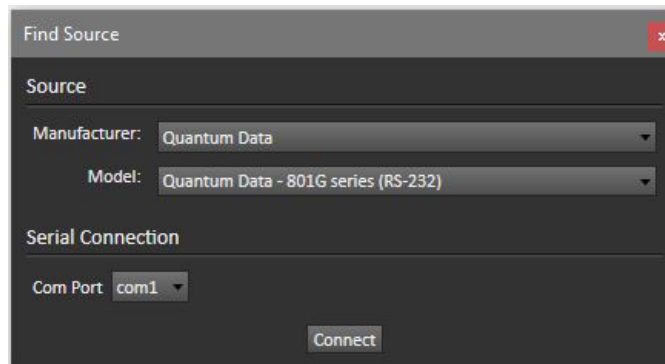
- All firmware versions are acceptable

Quantum Data Generator Control Connection:

- Serial

CalMAN Connection Procedure

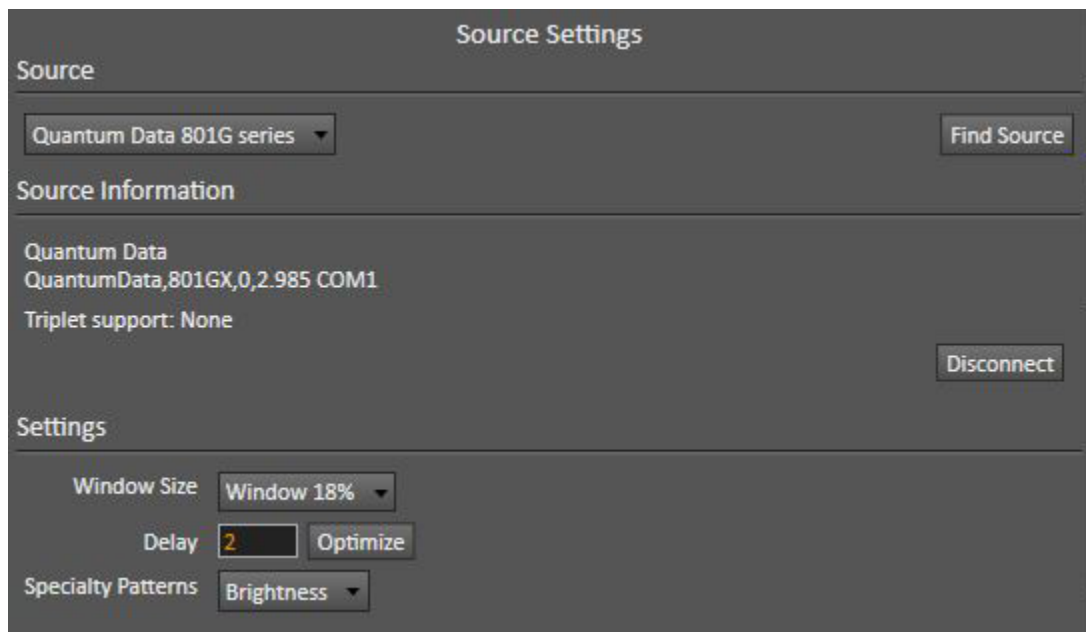
1. Connect the Quantum Data generator to the computer with a null modem serial cable and, if necessary, a USB to serial adapter.
2. Be sure that the proper USB driver is installed for the USB to serial adapter. If necessary, run the SpectraCal Device Driver Pack from this link: <http://www.spectracal.com/download.php?id=3>
3. On the CalMAN Source Settings tab, click “Find Source.”
4. On the Find Source dialog (below), select “Quantum Data” as the Manufacturer.
5. Select the Model to match your Quantum Data generator.
6. Select the Com Port that is assigned to the connected generator (check this in Device Manager).



7. Click *Connect* on the Find Source dialog.

CalMAN Source Settings Tab

The CalMAN Source Settings tab provides Source Information and Settings for the connected Quantum Data Video Generator.



Settings

Window Size

Select the desired test pattern size and type from the Window Size selection box.
(Note: For Plasma and CRT displays, Constant APL 50 works well.)

Delay

CalMAN provides a default measurement delay time of 2 seconds to accommodate the test pattern settling time of the Quantum Data generator and an attached display. To optimize the delay time for a particular configuration, potentially speeding up all measurement times, click the Optimize button.

Specialty Patterns

The pattern selection field allows you to select patterns from the Quantum Data generator other than the automated measurement windows or fields.