

Technical FAQ

Tech Library

- White Papers
- Journal Articles

Technical Notes

- General Filter Information
- Fluorescence Filter Information
- Raman & Laser Optical System Filters

Resources

- Cleaning Optical Filters
- Laser Damage Threshold (LDT) Calculator
- VersaChrome Calculator
- Cube Assembly Instructions
- Scratch Dig Inspection
- Improving Fluorescence Microscopy
- Optics and Filter Knowledge
- MyLight Tutorial

SearchLight Welcome

SearchLight

Wavelengths Newsletter

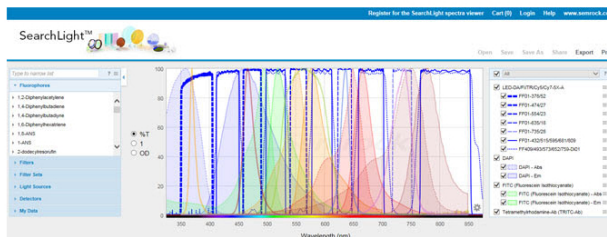
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SearchLight™ Spectral Plotting & Analysis Tool

The Premier Modeling Resource for Fluorescence Microscopists and Optical System Designers

[Start using SearchLight!](#)

SearchLight is a free, online spectral plotting and analysis tool that allows fluorescence microscope users and optical instrument designers to model & evaluate the spectral performance of fluorophores, filter sets, light sources, and detectors as components of an overall system. Its intuitive user interface makes it easy to manipulate spectral component specifications and plot spectral results. The System Calculator allows the user to quantify system metrics including signal, SNR, and bleed-through; as well as to compare various system configurations against each other.



Any number of spectra may be plotted simultaneously, and an entire graphing session sent to colleagues for collaboration using the "Share" feature. SearchLight sessions can also be saved into your personal account for future use.

SearchLight contains an extensive library of over 900+ fluorophores, 175+ light sources, 70+ detectors, and Semrock's entire library of filters and filter sets. "MyData" allows you to upload your own custom datasets for any components not currently included as a selection choice.

- Evaluate and optimize your system configurations
- Save/Share/Export your results for better collaboration
- Take advantage of the regularly updated databases
- Save time in the lab and make every photon count with Searchlight!

Intelligent User Experience within SearchLight

- Find compatible products for a selected fluorophore
- Narrow list of potential exciters, emitters, dichroics or filter sets

For additional details visit <https://searchlight.semrock.com>

For a video tutorial and helpful hints visit <https://searchlight.semrock.com/Help.aspx>.

SearchLight was one of the featured tech products on [NewsWatchTV](#) airing on January 6th, 2017. NewsWatchTV airs on the Discovery Channel, AMC, and ION Network in over 200 Markets nationwide in the US. Enjoy the following feature.



New SearchLight App for your Mobile Device

We now offer a SearchLight App available for iOS and Android mobile operating systems. Now you have all the popular features available from the SearchLight plotting tool right at your fingertips anytime, anywhere.

- Access SearchLight offline even without internet connectivity.
- Save your Sessions locally on your iOS or Android based mobile devices when offline
- All data syncs with your on-line account when you reconnect

Downloading this App is free and easy. Simply search for "Semrock" in the [Apple App Store](#) or [Google Play Store](#) and follow the download instructions for SearchLight.



SearchLight App available for iOS and Android. Advanced features for data management as well as simulations can be accessed using <http://searchlight.semrock.com>.

iPad



iPhone

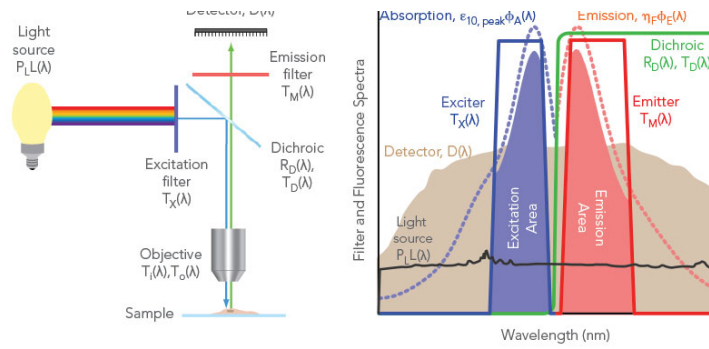


Android



Compare System Calculator

SearchLight Compare System Calculator feature quantitatively computes the fluorescence signal, noise, and signal-to-noise ratio for unlimited combinations of filter sets, fluorophores, light sources, and detectors. Calculations are based on a straightforward mathematical framework, which is described in detail in the white paper [Spectral Modeling in Fluorescence Microscopy](#).



SearchLight Calculator takes into account all the spectral components of a typical epifluorescence microscope configuration. See [Spectral Modeling in Fluorescence Microscopy](#), white paper for additional details.

[Click to download the SearchLight Datasheet](#)

For a video tutorial on SearchLight System Calculators, visit searchlight.semrock.com/SystemCalculatorVideo.aspx



Semrock manufactures hundreds of standard optical filters for immediate shipping: bandpass filters, dichroic beamsplitters, edge and notch filters, Raman spectroscopy filters, mirrors and fluorescence filters sets. For Custom optical filters, engineering design or system design support, please contact us to discuss your specific needs.

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POLICIES
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EMAIL SITE SUPPORT

Intelligent Solutions for Life™

