

# Optical filters for point of care diagnostics

**Continued investment and commitment to develop advanced point of care diagnostic test solutions is critical to the global mission of making the world a healthier and safer place.** Here at Semrock, we understand the need to provide actionable diagnostic results at reasonable cost while maintaining accuracy, speed and efficiency where it is needed the most, near the patient.

At Semrock, we are committed to being the partner of choice for our medical diagnostic customers. As a demonstration of our commitment, we invested in a state-of-the-art high-volume optical filter manufacturing capability. This new facility was purposefully configured and equipped with the most advanced deposition and process technologies to meet the need for high-performance optical filters for point of care diagnostics.

Our optical filter products are the ideal choice for critical point of care diagnostics based on fluorescence, chemiluminescence, absorbance or Raman detection methods used in, for example:

- Quantitative hemoglobin testing
- Real-time blood glucose monitoring
- Immunodiagnostics for infectious diseases, cardiac and cancer markers
- Bio-threat detection technologies



**Semrock**  
The Right Filter. Right Now.

## Why Semrock?

Head-to-head, Semrock's all-dielectric sputtered optical filters provide greater signal throughput when and where it is needed the most. The result is more accurate and consistent diagnostic test data that can be relied upon time and again when making important healthcare decisions.

SNR =

**Semrock**  
1.4<sup>[1]</sup>

Alternative  
0.6

*[1] Results modeled using Semrock's SearchLight™ and are based on comparing two hard-coated fluorescence filter sets optimized for green fluorescent protein (GFP) under identical excitation and detection conditions.*



## Capabilities

Semrock's new production facility supports the manufacture of sputtered optical filters:

- Covering wavelengths from 330 nm – 1700 nm
- In volumes from 1,000s to 10,000s per month, per customer
- As small as 1.5 mm x 1.5 mm
- From prototype to high-volume production
- Having custom designs for LED light sources

## The Right Filter. Right Now.

Leaders in the design and manufacture of the most spectrally sophisticated and long-lasting thin-film optical coatings, Semrock offers a wide range of unique filter solutions for point of care medical devices.

Single band filters  
Multiband filters  
Notch filters

LED optimized filters  
Edge filters  
Mirrors

Dichroic beamsplitters  
Laser-line filters  
Tunable bandpass filters

## Contact us today

To obtain a quote or more detailed information on our high-volume capabilities, please call us at 585-594-7000 or email Sales at [semrock@idexcorp.com](mailto:semrock@idexcorp.com). For more information visit [www.semrock.com](http://www.semrock.com).

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