SPECTROCAM™
multispectral camera *SWIR*

The SpectroCam-SWIR extends multispectral imaging (MSI) into the near infrared and SWIR spectral regions- providing sensitivity out to 1700nm. As with all of our SpectroCam products, the SWIR filters are interchangeable and customizable to support a wide variety of MSI applications. Our entire line of Spectro-Cam systems are sophisticated, flexible platforms for development and deployment of various MSI applications. Designed to reduce development times and simplify the design cycle, SpectroCam features a high speed, continuously rotating filter wheel containing 6 interchangeable optical filters combined with an extremely sensitive Goodrich solid state InGaAs imager. This design creates a fully portable, fully configurable, high speed MSI camera. With minimal pixel shift and high frame rates, this dynamic system is a powerful product development tool.

SpectroCam systems are available in a turnkey format complete with lens, 6 interchangeable filters and acquisition software that can be used for innovative 2D spectroscopy research in a variety of fields including water quality measurement, product screening, machine vision, biomedical imaging, surveillance and authentication. The system can also be customized for integration into specific OEM products. The platform is readily modified to meet your mechanical and environmental needs. Contact an Application Engineer today and find out how we can help bring your project to light.

Applications

Remote Sensing & Imaging

Materials & Manufacturing

Low light or obscured imaging

Camera Dimensions

Approximate

FRONT

124 mm

138 mm

SIDE

105 mm

SpectroCam is available for R&D teams who need a quick turnkey solution. SpectroCam utilizes a Goodrich InGaAs sensor capable of NIR and SWIR enhanced measurements and can be supplied with a standard set of filters, or outfitted with up to 6 different, interchangeable custom filters. The proprietary design allows for quick delivery while providing a system that suits your specific application needs today and for years to come. The SpectroCam offers a cost effective and versatile solution for your current and future MSI projects. Contact our Application Engineers today to discuss your specific needs and requirements.
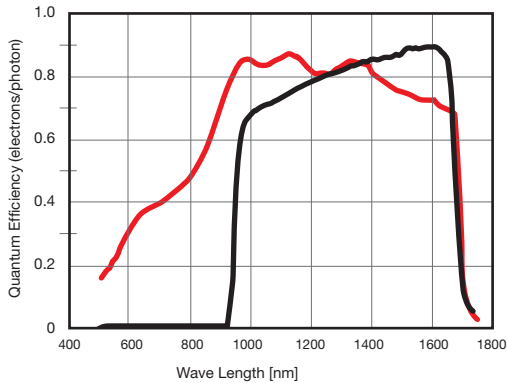
SpectroCam Customizable Options

- 6 optical filter positions with interchangeable filters
- Stock filters or custom designs for specified wavebands
- Scientific InGaAs Sensor or various sensor/camera options
- Standard compact size or customized housing for a variety of mechanical and environmental requirements.
- Acquisition software or customized user interface
- Proof of concept prototypes to high volume manufacturing
- OEM & fully integrated versions available

Standardized Demonstration Units Available

- Goodrich solid state InGaAs sensor
- 640 x 512 pixel format
- High quality 12 bit images
- Advanced gain control
- Contrast enhancement modes available
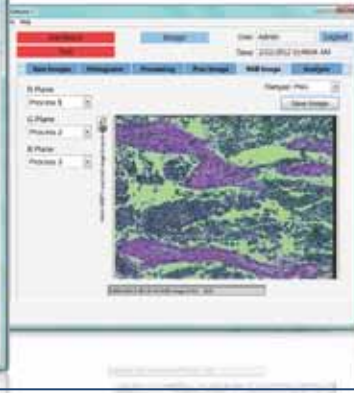- Standard F-Mount for a range of lens choices, focal lengths, FOV's
- Compact size

Quantum Efficiency vs Wave Length [nm]

■ Standard SWIR
■ NIR / SWIR

Software Screen

Image Processing Page - 15 Standard Functions

Live Images - 6 Different Wavebands

Processed Images - Viewed Live

Ocean Thin Films