LIQUID CRYSTAL TUNABLE FILTERS

BENEFITS

• Precise, reproducible wavelength selection
• Solid-state, no moving parts or vibration
• Rapid switching time
• Excellent image quality
• Available in the VIS and NIR wavelength ranges

MULTISPECTRAL IMAGING

Visible light is made up of a mixture of wavelengths that our eyes interpret as “color”. Remarkably, although we can distinguish millions of different colors or color combinations, we cannot perceive all the wavelength (or “spectral”) information in our visual environment. This is because our eyes (as well as conventional color films and color digital cameras) separate visible light, no matter how spectrally complex, into only three color bins: red, green, and blue (RGB).

Light with completely different spectral content can have precisely the same RGB coordinates. For example, when we see a yellow color, we cannot tell if it comes from a “pure” yellow color or from a mixture of red color and green color. Multispectral imaging can.

Multispectral imaging is a technique that provides images of a scene at multiple wavelengths and can generate precise optical spectra at every pixel. CRi’s VariSpec™ Liquid Crystal Tunable Filters (LCTF’s), which work without moving parts or noise, represent an ideal technology for affordable, precise, and robust multispectral imaging.
CRi, founded in 1985, is a photonics company and the leading provider of liquid crystal based imaging technology. CRi develops and manufactures high-performance instruments and systems that employ multispectral and polarized-light imaging and detection techniques for applications in diverse areas such as pharmaceutical drug discovery; life sciences; clinical and preclinical studies; and industrial process control.

CRi also offers a broad array of tunable, solid-state optical components and modules for use in wavelength-selection, polarization optics, and light-modulation in digital imaging applications.

Please contact us for more information:
TOLL-FREE (USA): 1.800.383.7924
DIRECT (Worldwide): +1.781.935.9099
E-mail: sales@cri-inc.com
Website: www.cri-inc.com

NUANCE™ & MAESTRO™ MULTISPECTRAL IMAGING SYSTEMS

For integrated solutions to multispectral imaging, rely on CRi’s powerful and robust Nuance and Maestro imaging systems.

Nuance systems can be used for brightfield or fluorescence microscopy, remote sensing, machine vision, macro-imaging, and many other applications. Maestro systems are used for in vivo fluorescence imaging.

Contact CRi for more details.