

INTRODUCTION


Dear Valued Customer,

Middleton Research is happy to present to you the very first dedicated hyperspectral imaging catalog. We believe that hyperspectral imaging has come of age and is here to stay. The many different applications, from microscopy to remote sensing, from pharmaceutical imaging to fruit sorting, testify to the power and flexibility of optical spectroscopy combined with imaging technologies.

Our company is dedicated to industrial and academic research, as well as process applications of optical spectroscopy and hyperspectral imaging. Since we began in 2002, we have provided solutions in spectroscopy, hyperspectral imaging, spectral imaging and machine vision. We deliver the highest quality hyperspectral components in a partnership with Specim, Ltd. of Finland. We pride ourselves on the ability to help customers understand the special parameters and performance of the various building blocks of our technology to find the best solution for each specific application.

We sincerely hope that the result of our pioneering effort to assemble this unique catalog will help you and serve as a valuable resource in your work. Should you have any comments on the contents, the comparisons, calculations, or if you have suggestions for products to add, we would love to hear from you.

Best regards,



Gabor J. Kemeny Ph. D.

President





OUR COMPANY

At Middleton Research, we offer services beyond the products in this catalog. We work closely with our customers to develop a clear understanding of application needs and then help every step of the way to create the best possible integrated solution. Middleton Research staff is well-equipped to provide you with solutions for a variety of applications, drawing upon our specialized expertise in the fields of mechanical, optical, software and computer engineering. In addition to hardware and software, we provide technical and quality consultation and training, laboratory and analytical services, as well as feasibility and method development in both hyperspectral and optical spectroscopy.

Our partner company, Spectral Imaging Ltd. of Finland is the largest dedicated hyperspectral imaging company and has over 15 years of instrument and software development experience. Middleton Research, in partnership with Specim Ltd., offers the highest performance and best value hyperspectral imaging products in the industry.

Hyperspectral imaging is a dynamically developing area and we are continually adding to the product line. Please contact us if you need a product that you don't see here. Our special expertise is developing custom solutions for unique applications. In addition, you may wish to check the website version of the catalog for updates.



CUSTOM SYSTEM DESIGNS

Complete hyperspectral systems require custom software and hardware, may require custom light sources, fiber optic interface, special calibration and validation devices between the process and the optical measurement system. If our catalog products and systems do not perfectly fit your application requirements, members of our skilled engineering team are eager to work with you to design the solution that meets your exact needs. Middleton Research engineers routinely design, prototype, and manufacture high quality custom systems based on the components presented in this catalog. Our hyperspectral imaging expertise spans many applications including pharmaceuticals, semiconductors and solar cells, biomedical, agricultural and food, defense and security. Hyperspectral imaging can be used in all wavelength regions from the UV to the long-wave infrared. If your application requires a ground-breaking partnership to realize your goals, please contact us to discuss your project in greater detail.

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Please note that product availability and specifications in this catalog may change without notice.

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