Press Release
Defense, Security
& Sensing 2011

Jenoptik Introduces New Multispectral Coatings

A new product line of multiband, multispectral antireflective and filters coatings of Jenoptik´s Optical Systems division are being introduced at SPIE Defense, Security and Sensing exhibition in Orlando. These coatings are an enabling technology for the next generation of thermographic applications.

Emerging technologies, such as hyperspectral image fusion, multispectral single aperture optical systems and spectral gas analysis, require high performance coatings that maximize system sensitivity and performance. The use of single apertures for multiple wavelengths enables lighter, smaller optical solutions for UAVs (unmanned aerial vehicle) and other weight and size limited applications. Multispectral image fusion reduces the occurrence of false positives in surveillance and target acquisition applications.

The new multispectral AR and filter coatings have been designed by Jenoptik to meet future customer requirements for screening and transmitting wavelengths that are far apart from each other in the spectral range. The design and production process significantly reduces the coating's stress, and meets durability and adhesion per MIL-C-48497. Components and coatings of this new product line can be produced in a wide range of varieties tailored to the specific requirements of customers.

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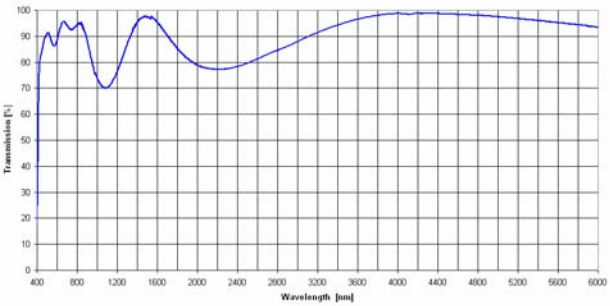
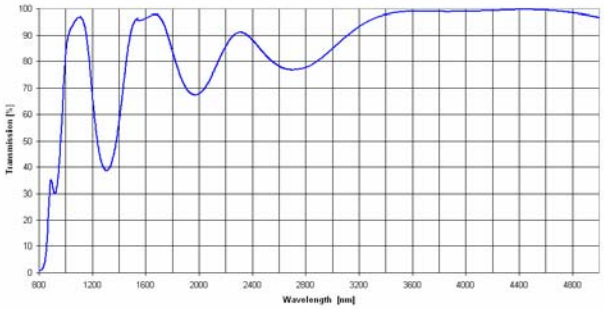
Managing Directors: Dr. Dirk Michael Rothweiler, Dr. Stefan Stenzel

Examples for transmission of multiband coatings



Triple band VIS-SWIR-MWIR AR Coating on ZnS
(420-900nm – 1.55µm – 3.8-5.5µm)



Triple band NIR-SWIR-MWIR AR Coating on ZnS
(1.064µm – 1.55µm – 3.6-4.8µm)

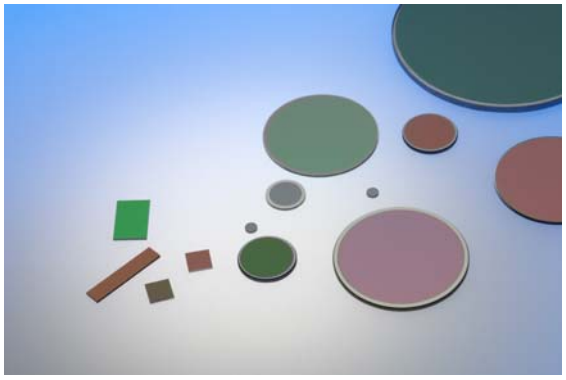


Image:
Different IR Filters

Jenoptik is consistently strengthening its infrared business for the US Defense & Security market.

With its three US manufacturing locations and its headquarters in Jena, Germany, Jenoptik Optical Systems designs, fabricates, assembles, and tests custom lens components and assemblies, from the Deep UV to the Far IR. In 2010 Jenoptik launched a new program dedicated to expanding Jenoptik's presence in the US IR Defence and Security markets and installed diamond turning optical manufacturing in the Jupiter, FL facility to complement existing capabilities in the US and worldwide. Future expansion of activities and technological capabilities are planned.

Visit us at 2011 SPIE Defense, Security & Sensing Exhibition Booth # 335.

About Jenoptik Optical Systems Division

With its Optical Systems division, the Jenoptik Group is one of the few manufacturers in the world able to produce precision optics and systems designed to meet the highest quality standards.

Besides opto-mechanical and opto-electronical systems, modules and assemblies, the Optical Systems division is a development and production partner for optical, microoptical and coated optical components - made of optical glasses, IR materials as well as polymers. It possesses outstanding expertise in the development and manufacture of optics and microoptics for beam shaping used in the semiconductor industry and laser material processing. The product portfolio also includes systems and components for life sciences as well as lighting applications, modules and system solutions for digital image capture and processing as well as cameras for digital microscopy.

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