

Press release

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Spectralon® and Spectrafect® improve light collection tube and light guide throughput:

Labsphere's Diffuse Reflectance Materials and Coatings Increase Medical Imaging Performance

Wessling, 12. February 2008, With 96 to 98 percent reflectance, Labsphere's Spectralon® and Spectrafect® provide the highest level of uniform light integration for maximum efficiency in light collection tubes and light guides used in medical imaging equipment.



Labsphere's diffuse reflectance materials and coatings increase light collection tube and light guide throughput in medical imaging equipment.

The near-Lambertian properties of Spectralon and Spectrafect deliver a uniform dispersion of light that integrates light and reduces hotspots better than other materials in coated cavity applications. A high reflectance over a broad spectral range of 250-2500 nm increases optical efficiency. With increased efficiency, less light input is required for performance, lowering energy and design costs. Since light collection and reflectance are not dependent on the geometry of light input, design flexibility is increased. Inert, thermally stable and UV-resistant, Labsphere's materials ensure consistent optical stability and long term performance reliability.

Machined Spectralon can be economically fabricated into a wide variety of shapes to meet many imaging instrument designs. In-house machining allows samples to be created quickly and easily, and modified throughout the design, prototyping and testing process. For other applications, Spectrafect diffuse reflectance material can be uniformly spray-coated on customer provided substrates.

For further information, contact:

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About Labsphere:

Part of the global Halma group of technology companies, Labsphere is a world leader in light testing and measurement, and diffuse optical coatings. The company's products include LED, laser and traditional light source light measurement systems; uniform light sources for imaging device calibration; spectroscopy accessories; and high diffuse reflectance materials and coatings for applications in backlit panel displays, computed radiography, and system calibration. Their expertise has resulted in multiple patents in areas such as methods for testing LEDs on a wafer and UV transmittance.

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Über Laser 2000:

Laser 2000 GmbH is a supplier of high technology in the field of lasers, micromachining equipment, optics, and fiber optic equipment. Our products are designed to meet the challenges of both research and industrial production as well as your actual or future requirements of your applications. Laser 2000 is headquartered in Munich, Germany and operates local offices in all major business areas of the European market. In order to support your application we deliver top-level service and products and meet the highest standard of quality. With an installed base of thousands of applications around the world, Laser 2000 has shown the ability to provide onsite-support in time. Learn more about Laser 2000: www.laser2000.de

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