



Compamed 2024: CeramOptec Presents Specialized Optical Fibers and Probes for the Medical Technology Sector

The company's trade show presentation is focused on customer-specific solutions

CeramOptec will exhibit its high-performance products for medical laser applications at Compamed. The focal point of the trade show presentation will be on germanium-doped optical fiber cables as well as customized solutions such as fibers for applications with UV radiation.

Bonn, 09/17/2024 – CeramOptec will present its MED.OEM (Medical Original Equipment Manufacturer) product range at Compamed (November 11-14, 2024 in Düsseldorf, Hall 8a, IVAM booth F29.6). The fiber optic specialist's light conductors and probes are suitable for usage in both contact and non-contact modes and distinguish themselves through their easy handling features, enabling high-precision laser guidance: physicians and patients benefit from tissue conserving procedures during which virtually no bleeding occurs. The range of possible application areas spans ophthalmology, ENT medicine and pneumology, orthopedics, gynecology and extends from urology to dermatological and aesthetic surgery. The trade show exhibition is focused on customer-specific solutions such as fibers for applications with UV radiation and Germanium doped optical fiber cables for medical laser applications.

Specialty fibers for long-term UV radiation

With its solarization-resistant, carbon-coated Optran® UV NSS fibers, CeramOptec presents a solution for long-term UV applications in the low UV range. The fibers, which are specifically designed for medical applications (UV psoriasis treatment, UV curing, etc.), feature a stabilized defect passivation thanks to their hermetically sealed coating, which prevents the absorption of UV light by the quartz glass. While conventional products become unusable after a short time under UV light, the transmission performance of UV NSS fibers still amounts to around 85 percent of the original value even after several months of UV irradiation.

The trade show portfolio also includes Germanium doped Optran® Ultra WFGE fibers, which have been developed for medical diagnostics, laser guidance and photodynamic therapies. They support spectral transmissions of 400-2400 nm and are characterized by excellent transmission quality and durability. In addition, as with all standard fiber types, it is possible to configure them as safety fibers. For that purpose, two copper wire conductors are included in the sheathing during the manufacturing process. When the fibers are connected to the laser, the copper wires become part of the system's electrical circuit. In case of connection defects or fiber breakage, the copper wires are severed, which will disrupt the circuit. Critical radiation leaks are thus prevented from the outset.

Further information on the products can be found at www.ceramoptec.com.

About CeramOptec

CeramOptec® specializes in the production of multimode optical fiber cables made of quartz glass, as well as customer-specific assemblies of fiber cables and bundles. The mid-sized company was founded in Bonn in 1988 and is now a subsidiary of biolitec AG, one of the world's leading medical technology companies in the field of laser applications. With subsidiaries in Canada, China, Finland and Dubai as well as distribution partners in France, Israel, India, Japan and Korea, CeramOptec has a strong presence not only in Europe, but also in the Asian and North American markets. Its product range includes preforms, fibers, cables and assemblies for a wide range of applications, including industrial and medical laser applications, semiconductor manufacturing, sensor systems in aerospace and spectroscopic applications for astronomy and the chemical industry. The biolitec group employs a total of 450 people.

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