



**Photonics West 2022:
CeramOptec presents specialized optical fibers for
industrial, medical and laboratory applications**

Special emphasis on surface treatment and durable UV applications

At Photonics West 2022, CeramOptec will present high-performance optical fibers for industrial, medical and laboratory applications. Emphasized are solutions for surface treatment and long-term UV applications. In addition to individual fibers, optical fiber bundles in various configurations will be introduced as well.

Bonn/Livani, 23. 11.2021 – CeramOptec, one of the world's leading developers and manufacturers of multimode optical fibers made of quartz glass, will present its complete optical fiber portfolio for industrial, medical and laboratory applications at Photonics West in San Francisco (January 25 to 27, 2022, at the booth of Armadillo SIA, Booth #3359). The biolitec subsidiary's trade fair attendance will focus on specialty fibers for laser-based surface treatment and separation processes, as well as durable UV applications. In addition to individual fibers, optical fiber bundles in varying configurations will be introduced.

CeramOptec will present its Optran® NCC fibers as a fiber optic solution for laser-based industrial applications such as ablation, cleaning, coating or cutting. Their polygonal core geometry actively contributes to the generation of top hat beam profiles, eliminating the need for costly homogenizers. For long-term applications in the deep UV range – such as UV spectroscopy or UV curing of adhesive joints or tooth fillings – the optical fiber specialist includes solarization-resistant Optran® UV NSS fibers in its product range. The absorption of UV light in quartz glass, which renders conventional fibers unusable after a short time in UV applications, is blocked in these fibers by defect passivation and stabilized by carbon coating. Even after several months of exposure to UV radiation, these fibers still provide a transmission rate of approximately 85 percent of the original value. Another highlight of the trade fair attendance are Germanium-doped Optran® Ultra WFGE fibers, which excel due to their longevity and high transmission quality, especially in sensory and spectroscopic applications.

At Photonics West, CeramOptec fiber optic solutions can be seen not only at Armadillo: At the booth of the Fraunhofer Institute for Laser Technology (Booth #4429), a completely fiber-integrated multimode resonator will be presented, for which CeramOptec developed and manufactured a special version of its Optran® NCC fiber. Additional information about CeramOptec optical fibers can be found at www.ceramoptec.com.



About CeramOptec

CeramOptec® (Bonn) in cooperation with Ceram Optec SIA (Livani/Latvia) specializes in the production of multimode fiber optic cables made from quartz glass. The mid-sized company was founded 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 China and Malaysia as well as distribution partners in France, Belgium, the Netherlands, India, Japan, Korea and the USA, CeramOptec has a strong presence not only in Europe, but also in the Asian and North American markets. The product range includes optical fibers, fiber bundles, assemblies and cables for numerous applications, including industrial and medical laser applications, sensor systems in aerospace and spectroscopic applications, astronomy and the chemical industry. The production of optical fiber cores with four- to octagonal geometries (Non-Circular Core Fibers/NCC), which are mainly used in astrophysics are a special staple. The biolitec group employs a total of 285 associates.

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