

CeramOptec HEAL LED: Infrared-A-treatments with depth effect

Portable LED device enables flexible therapy applications for muscle and bone tissue injuries

With the HEAL LED, CeramOptec introduces a mobile LED device for deep-acting infrared-A-therapy. The parallel emitted IR-A wavelengths reach muscle as well as bone tissue and support cell regeneration and healing after injuries or high stress.

Bonn, June 24, 2021 - CeramOptec, one of the leading international developers and manufacturers of multimode optical fibers made of quartz glass, has developed the CeramOptec HEAL LED, a portable device for deep-penetrating infrared-A-radiation. Designed to treat muscle and bone tissue injuries and promote regeneration after peak stress, it uses infrared wavelengths of 810 and 940 nanometers delivered in equal parts in parallel. The irradiation supports cellular regeneration processes, improves blood circulation, and causes a pain-relieving release of endorphins.

The combined wavelengths of the HEAL LED device penetrate to a depth of about five centimeters into the body and thus reach all muscle and bone areas without exception. Five continuous wave power levels up to a maximum of twelve watts as well as a programmable time setting allow the treatment to be optimally adjusted to the therapy plan and the patient's individual constitution. The healing of bruises and fibrous tears is supported, as is the reconstruction of bone tissue after fissures and fractures. In addition, infrared light irradiation has an anti-inflammatory effect in the area of tendons, muscles, bones, and cartilage. In addition, the device can also be used for the treatment of skin diseases such as neurodermatitis, psoriasis, and acne.

Included with the HEAL LED are an external power supply and a rechargeable battery pack. The device is certified according to IEC 60601-1-11:2015 and approved for use in harsh environments (sports field) as well as in the home environment.

Its mobile design makes it particularly suitable for spontaneous applications and immediate treatments in the competitive sports environment. Further applications can be found in classical orthopedics and general medicine. For more information, please contact: <https://led-it-heal.de/>

About CeramOptec

CeramOptec®, in cooperation with Ceram Optec SIA, specializes in the manufacture of multimode fiber optic cables made from quartz glass. The medium-sized company was founded in 1988 and is today a subsidiary of biolitec AG, one of the leading international medical technology companies in the field of laser applications. With subsidiaries in China and distribution partners in the USA, France, India, Japan, and Korea, CeramOptec® is strongly represented not just in Europe, but also on the Asian and North American markets. The company's range comprises fibers, fiber bundles, assemblies, and cables for numerous application areas, amongst these industrial and medical laser applications, aerospace sensor systems and spectroscopic applications in the fields of astronomy and the chemical industry.



One special product in its range is the manufacture of glass fiber cores with square to octagonal geometries (non-circular core fibers/NCC), which are mainly used in astrophysics applications. The biolitec group has 245 employees in total.