

FiberLase CR

Laser for Pain Therapy and cartilage regeneration

NEW PRODUCT



FiberLase CR is based on a fiber laser with a wavelength of 1.55 microns and a diode laser with a wavelength of 0.98 microns and is designed for pain therapy, as well as for use in neurosurgery (vertebrorology), traumatology and orthopedics.



APPLICATION

- ▶ PAIN THERAPY
- ▶ INTERVERTEBRAL DISC RECONSTRUCTION
- ▶ CARTILAGE REGENERATION OF JOINTS



DISTINCTIVE FEATURES


- ▶ RELIEF OF PAIN SYNDROME OF DIFFERENT LOCALIZATION
- ▶ WIDE RANGE OF APPLICATORS FOR THE TREATMENT OF PAIN
- ▶ MINIMALLY INVASIVE SURGERY
- ▶ OUTPATIENT SURGERY OPTION
- ▶ SHORTER HOSPITAL STAYS

APPLICATORS FOR CONTACT WORK


∅ – Spot size ⇩ – Exposure depth




FREEZABLE APPLICATOR
∅ – 15 mm ⇩ to 50 – 60 mm



SPACER APPLICATOR
∅ – 15 mm ⇩ to 20 mm



CONTACT APPLICATOR B1
∅ – 20 mm ⇩ to 20 mm



CONTACT APPLICATOR B2
∅ – 35 mm ⇩ to 20 mm

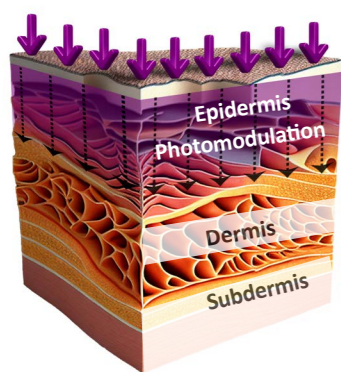
NON-CONTACT APPLICATOR



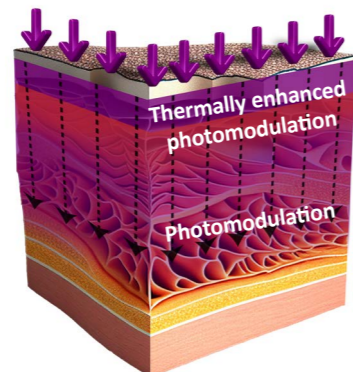
TUNABLE APPLICATOR
Located at a distance of 15 cm from the patient's skin, pre-designated spot size from 35 mm to 130 mm.

ADVANTAGES OF THE TECHNOLOGY

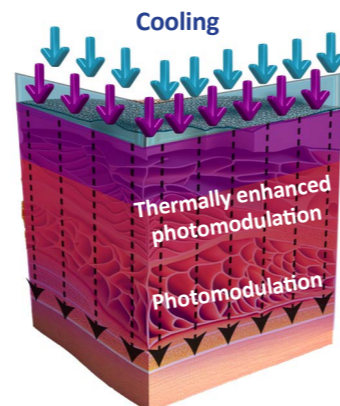
FIBERLASE CR feature is the possibility to maximize the effective penetration of laser radiation into the tissue in order to eliminate the pain syndrome.



Low Intensity laser therapy

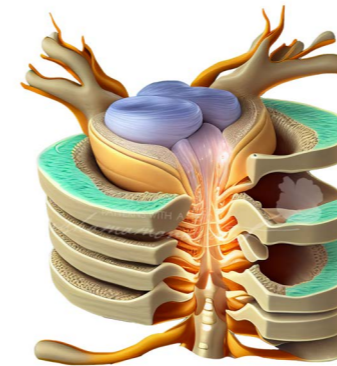


High Intensity laser therapy



High Intensity Laser Therapy with Cooled Applicator

LASER RECONSTRUCTION OF THE INTERVERTEBRAL DISCS (LRD)

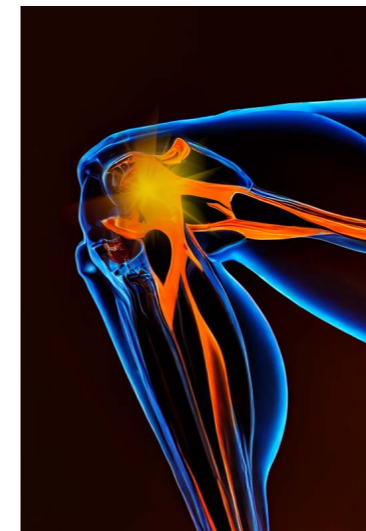


LRD - cartilage reconstruction by creating laser-induced microdamages in the cartilage tissue, provoking an increase in synthetic activity of chondrocytes.

BENEFITS:

- minimally invasive procedure
- performed under local anesthesia
- can be performed on all parts of the spine
- minimal rehabilitation period
- intervention time < 25 minutes
- performed as a preventive measure in early stages
- cartilage tissue regeneration

LASER RECONSTRUCTION OF CARTILAGE IN THE KNEE JOINTS (LRC)



LRC is a minimally invasive surgical intervention that can be under spinal or local anesthesia, in order to restore cartilage of the joint. The FiberLase CR has specific parameters of laser radiation, after exposure to which it is possible:

- 1) To stimulate the production of cartilage cells (chondrocytes)
- 2) To improve nutrition of cartilage tissue by creating micro channels
- 3) As a result, the cartilage tissue of the joints is restored

BENEFITS:

- minimally invasive procedure
- minimal recovery time
- intervention time < 30 minutes
- no incisions and no scars
- cartilage tissue regeneration

OPTICAL CHARACTERISTICS

Wavelengths, μm	0,98	1,55
Max power, W	25	10
Pilot wavelengths, μm	0,65	0,52

TECHNICAL CHARACTERISTICS

Fiber diameter, μm	365 ... 550
Supply voltage, V	220 ± 10%
Dimensions (H × W × D), mm	272 × 272 × 273
Weight, kg	10



WORLD LEADER IN LASER INDUSTRY

IRE-Polus is one of the leaders in the field of fiber lasers and amplifiers, as well as devices and systems based on them. Fiber lasers have the highest performance, reliability, and practicality at a lower cost of ownership than other types of lasers.

Relying on professionalism and many years of experience in laser equipment manufacturing, "IRE-Polus" Ltd. sells medical laser devices and surgical fibers for a wide range of applications.

During the development of new medical laser devices, IRE-Polus goes through all stages: not only the device manufacturing, but also creation of methods for its application, conducting both in-vitro researches in its own research laboratories, and clinical research together with the leading clinical centers.



IRE-POLUS LTD.
WWW.VPGLASER.COM



+971 50 764 2603
sales@vpglaser.com



FOUNDED IN
1991



15
CLINICAL CENTERS FOR
IN VITRO AND IN VIVO
STUDIES



>1 million
PATIENTS HAVE BEEN
TREATED WITH IRE-POLUS
LASERS IN 2024



>800
MEDICAL LASER SYSTEMS
SHIPPED TO RUSSIA SINCE
2024