

# PRESS INFORMATION



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## **LEONARDO® DUAL by biolitec®: First medical laser for multifunctional applications in minimally invasive therapies**

**LEONARDO® laser family first universally applicable medical laser system with a combination of two wavelengths for use in several disciplines – LEONARDO® DUAL series lasers are suitable for minimally invasive procedures in phlebology, proctology, urology, gynecology, orthopedics, thoracic surgery and aesthetic surgery**

Jena, April 19<sup>th</sup>, 2018 – The unique medical laser system **LEONARDO® DUAL** consists of lasers with 45 watt, 100 watt and 200 watt power ranges. These lasers are the most versatile medical lasers available for medical laser treatments, offering a variety of tissue interactions – for open and for endoscopic procedures with contact or non-contact delivery options. The possibility to use two wavelengths in one compact, mobile and space-saving laser system constitutes a clear benefit for the user, just as the multidisciplinary use of the lasers and the low-maintenance. Each wavelength can be individually selected or blended together to offer the desired tissue effects, such as incision, excision, vaporization, hemostasis and coagulation of soft tissue. All of the lasers are equipped with the two wavelengths of 980 nm and 1470 nm, which can be continuously used during the treatment.

The new **LEONARDO® DUAL** series lasers are suitable for minimally invasive procedures in phlebology, proctology, urology, gynecology, orthopedics, thoracic surgery, pneumology, ENT and aesthetic surgery. As the lasers feature not only a wavelength of 980 nm but also of 1470 nm, they are also ideally suited for the use in phlebology. The laser procedure with a wavelength of 1470 nm minimizes any post-operative inflammatory pain and bruising, due to a 400 times greater absorption coefficient in water compared to 810 nm lasers targeting hemoglobin. In addition, an easy-to-use system for a significantly improved treatment outcome is provided by means of the radial (360°) emission of the patented **ELVeS® Radial® 2ring** fiber.

The **ELVeS® Radial® 2ring** fiber splits the energy in two phases, which leads to an effective closure of the vein. By avoiding perforation of the vein wall and associated thermal irritation of the surrounding tissue, post-operative pain is minimized. The **ELVeS® Radial® 2ring slim** fiber was especially designed for the treatment of superficial venous reflux on perforator veins and small saphenous veins.

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With the biolitec® therapies **FiLaC®** (Fistula-tract Laser Closure for anal fistulae), **SiLaC** (Sinus Pilonidalis treatment) and **LHP®** (LaserHemorrhoido-Plasty for hemorrhoids) for proctology, biolitec® introduced a new innovative minimally invasive method, where the diseased tissue is irradiated from the inside with the laser energy and thus gently destroyed.

Also part of the family and suitable for varicose vein treatment is the **LEONARDO® Mini 1470 nm**. Weighing only 900 grams, this device can be used mobile in the established treatment methods of biolitec® for venous diseases and other medical treatments. Besides the lasers, biolitec® provides a wide range of accessories and offers suitable fibers with specific characteristics that are perfectly coordinated with versatile therapeutic areas and the respective application, due to continuous research and development.

If you are interested in presentations or congresses on the subject of minimally invasive medical laser therapies by biolitec®, please have a look at our website [www.biolitec.com](http://www.biolitec.com) (section Company/Events).

### **To the company:**

biolitec® is one of the world's leading medical technology companies in the field of laser applications and the only provider with all relevant core competencies – photosensitizers, lasers and fiber optics – in the field of photodynamic therapy (PDT). In addition to the laser-assisted treatment of cancer with the drug Foscan®, biolitec® researches and markets minimally invasive, gentle laser procedures. ELVeS® Radial® (Endo Laser Vein System) is the world's most widely used laser system for treating venous insufficiency. The new LEONARDO® diode laser from biolitec® is the first universally applicable medical laser with a combination of two wavelengths, 980 nm and 1470 nm, which can be used in all disciplines. The innovative XCAVATOR® contact fiber in conjunction with the LEONARDO® DUAL 200 Watt laser in urology enables gentle treatment of benign prostate hyperplasia (BPH), for example. The LEONARDO® Mini laser, which weighs only 900 g, has been specially developed for mobile applications. Gentle laser applications in the fields of proctology, ENT, gynecology, thoracic surgery and pneumology are also part of biolitec®'s business field. Further information is available at [www.biolitec.com](http://www.biolitec.com).

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