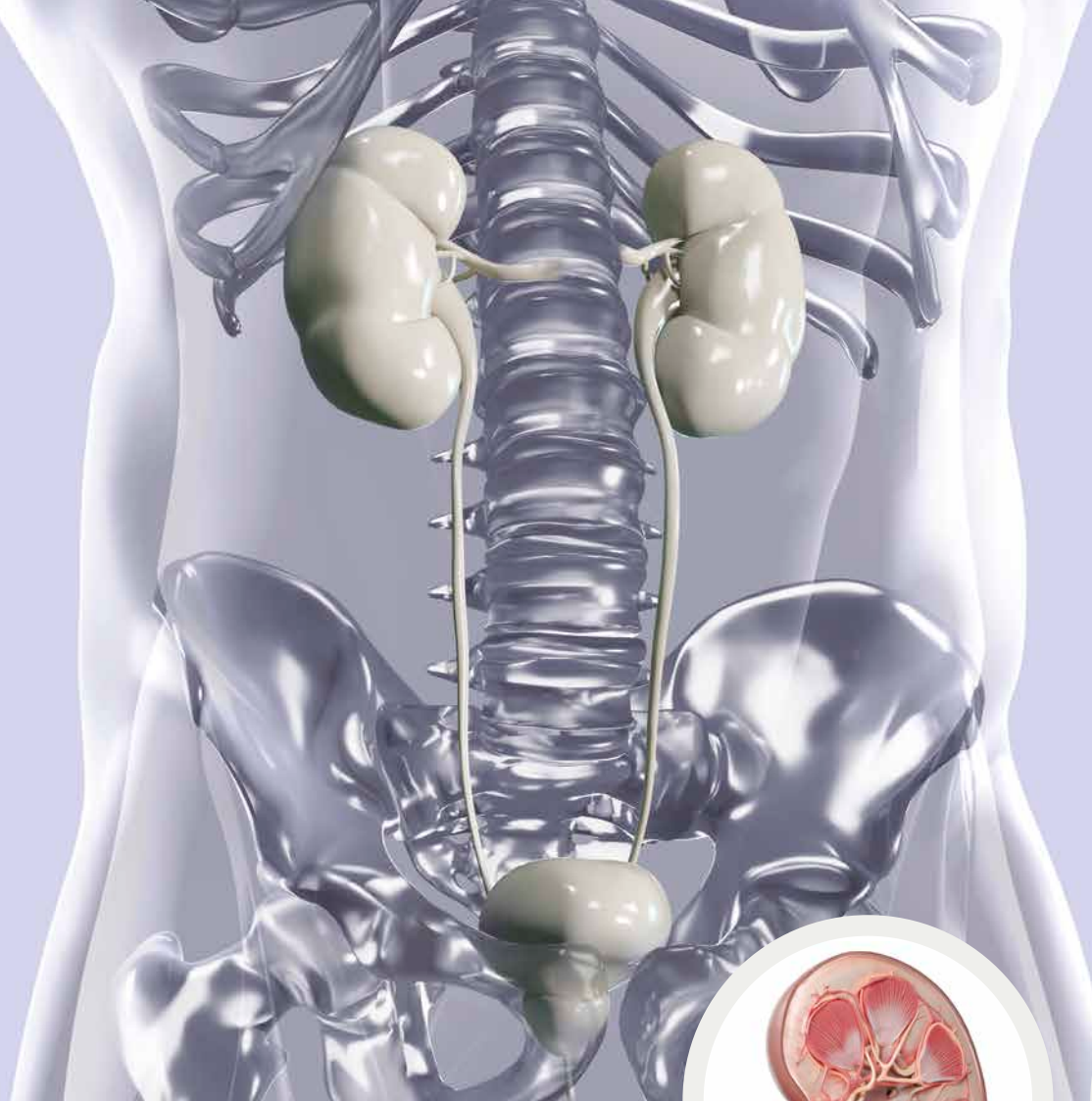
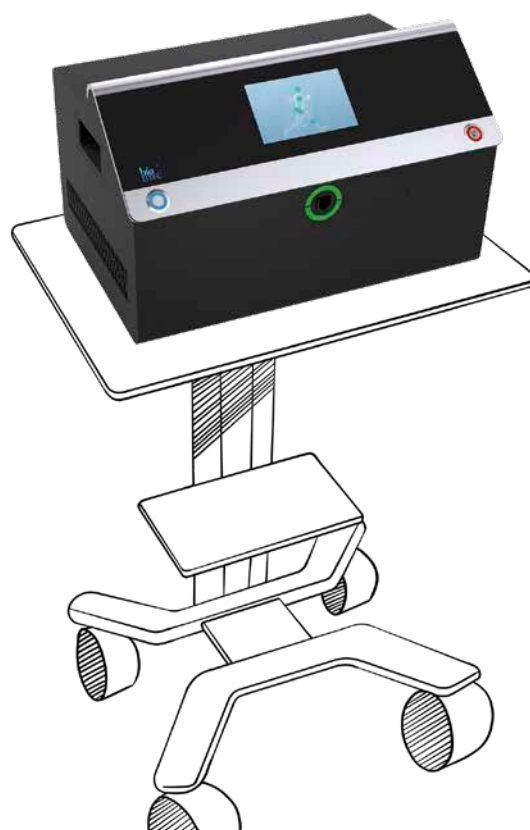




UROLOGY

LEONARDO[®] DUSTER

Thulium Fiber Laser



Technology
meets Anatomy

LEONARDO® Duster

One device for multiple urology applications

LEONARDO® Duster

Super pulsed Thulium Fiber Laser



High Quality Biolitec® laser fibers

ranging from
150 to 1000
microns



LEONARDO® Duster

VISIBLE LASER RADIATION
AVOID DIRECT EYE EXPOSURE

CLASS 3R LASER PRODUCT
Diode-Laser 1940 nm CW 60 W (Max.)
EN 60825-1:2014+AC:2017+A11:2021+A12:2021 AC2022
EN IEC 60825-2:22:2020 LA7592_REV.C

VISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO DIRECT OR
SCATTERED RADIATION

CLASS 4 LASER PRODUCT
Diode-Laser 1940 nm CW 60 W (Max.)
EN 60825-1:2014+AC:2017+A11:2021+A12:2021 AC2022
EN IEC 60825-2:22:2020 LA7591_REV.C

CE 0483

CeramOptec GmbH
Siemensstr. 44, D-53221 Bonn

Technical Specifications

Model	LEONARDO® Duster
REF	TFL1940nm60W
Wavelength	1940 nm ± 3 nm
Max average power	60 Watt
Max peak power	600 Watt
Pulse energy	0.02 – 6 J
Aiming beam	Laser diode, green 525 nm (adjustable) < 1mW, class 3R (brightness adjustable)
Treatment mode	CW / Superpulsed
Pulse duration	42 µs to 20 ms
Repetition rate	1 to 2500 Hz
Power supply	110 – 240 VAC, 50/60 Hz
Dimensions (H x W x D)	37.8 cm x 57.7 cm x 36.8 cm
Weight	42.5 kg

All laser sets incl. 3 safety goggles, foot switch, power cord and manual.
Fibers are offered in sizes ranging from 150 to 1000 microns.

Accessories

REF	Product	PU*
LA3131	LEONARDO® Duster Trolley	1
SA2895	PeliCase	1

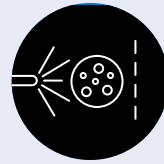
*Packing unit

Why LEONARDO[®] Duster?



FINE DUSTING

Dusts urinary stones
3-4 times finer compared to
the Holmium YAG laser.¹



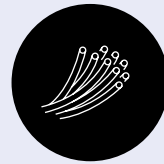
MINIMAL RETROPULSION

The TFL laser allows precise
fragmentation and quicker procedure
due to less stone displacement.²



QUICK DUSTING

The Duster laser ablates stones
3 times faster compared to the
Holmium YAG laser.³



FIBER RANGE

Fibers offered from 150 to 1000
microns for lithotripsy, BPH and
soft tissue treatments.



SOFT TISSUE ABLATION

Soft tissue treatment can also
be performed using the same
laser. Procedures like BPH
enucleation and vaporization
can be performed precisely.



ECONOMICAL

Making it more accessible
for surgeons.

¹ Tzelves L, Somani B, Berdempes M, Markopoulos T, Skolarikos A. Basic and advanced technological evolution of laser lithotripsy over the past decade: an educational review by the European Society of Urotechnology Section of the European Association of Urology. Turk J Urol. 2021;47(3):183–92. doi: 10.5152/tud.2021.21030.

² Kronenberg P, Hameed BZ, Somani B. Outcomes of thulium fibre laser for treatment of urinary tract stones: results of a systematic review. Curr Opin Urol. 2021 Mar 1;31(2):80–86. doi: 10.1097/MOU.0000000000000853.

³ Traxer O, Corrales M. Managing Urolithiasis with Thulium Fiber laser: updated real-life Results-A systematic review. J Clin Med. 2021;10(15):3390. doi: 10.3390/jcm10153390.



Versatile Laser in Urology

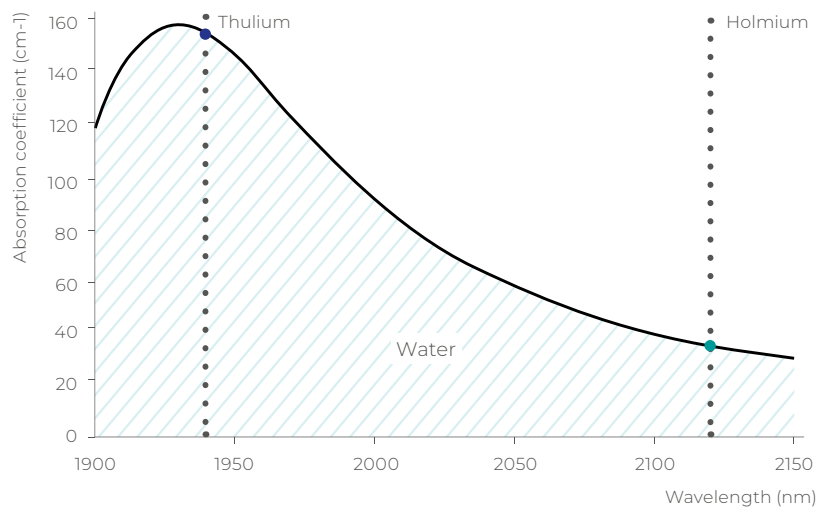
LEONARDO® Duster can treat multiple urological conditions. The versatile functions include treating a wide range of clinical conditions such as stones (Dusting, Fragmentation and Popcorning), benign prostatic hyperplasia (enucleation or vaporization) or soft tissues treatments.

VARIOUS MEDICAL APPLICATIONS

- Lithotripsy – Dusting, Fragmentation & Popcorning
- Benign Prostatic Hyperplasia (BPH) Enucleation & Vaporization
- Other Soft Tissue Treatment



Water absorption coefficient of Thulium Fiber Laser and Holmium YAG Laser



**Better
Absorption**

Experience the Future of Urology with Thulium Fiber Laser Technology!

The latest Thulium Fiber Laser Technology is set to redefine urology, surpassing the Holmium YAG laser in the treatment of urinary stones, prostate conditions, and soft tissue treatments.

Introducing the New LEONARDO® Duster – a cutting-edge solution powered by a 60W 1940 nm Thulium Fiber Laser, delivering unmatched precision, efficiency, and versatility. Elevate your practice with the next generation of laser technology!



LOW MAINTENANCE

The Thulium Fiber Lasers are designed for maximum efficiency with minimal upkeep. The solid-state technology ensures long-lasting performance, reduced downtime, and lower operating costs, making them a hassle-free solution for modern urology practices.



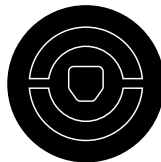
EASY TRANSPORT

Smaller footprint allows the Duster laser to be mounted on trolleys. The machines can be easily transported between operating rooms.



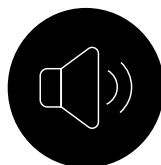
POWER LOCK MODE

A unique safety feature that locks the power at a desired value while still allowing adjustments to energy and frequency to perform the treatment, such as the ureters.



LED WARNING RING

The LED ring shows system status at a glance: green means ready, pulsing orange means standby, and solid orange with sound means the laser is active. Adjust the brightness to the OR lighting conditions.



ADJUSTABLE AUDIO LEVELS

LEONARDO® Duster features adjustable audio alerts to ensure warnings are always heard — even in noisy environments.

CONTACT US

To Learn More About a Whole New World of Minimally Invasive Laser Therapies

ENT

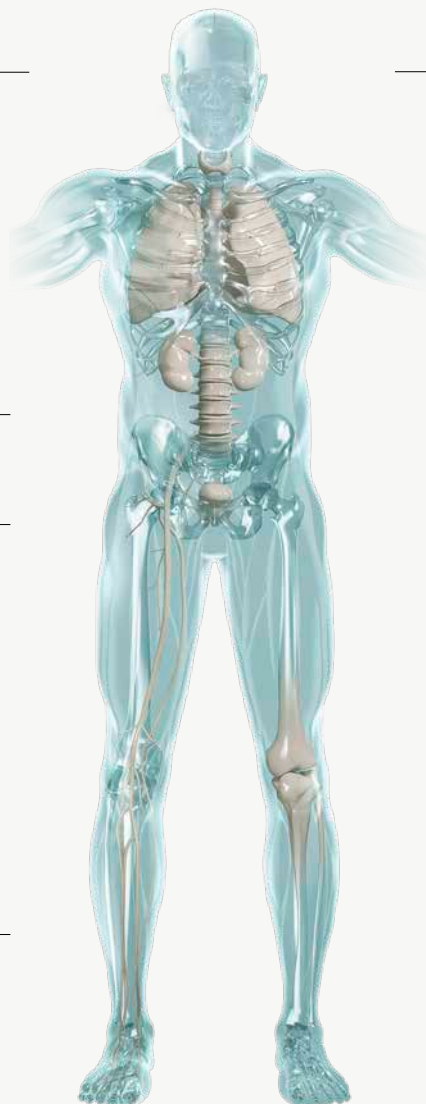
Thoracic Surgery

Aesthetics

Urology

Proctology

Phlebology



Aesthetics

Thyroid Treatment

Orthopaedics & Pain Management

Gynaecology

Orthopaedics & Pain Management



biolitec GmbH
Untere Viaduktgasse 6/9
A-1030 Wien
info@biolitec.com

Legal Manufacturer
CeramOptec GmbH
Siemensstr. 44
53121 Bonn

Find your
local biolitec®
partner

