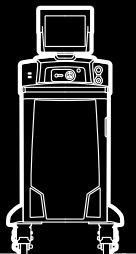




Cyber TM *Family*

THULIUM LASER





Cyber™ Family

150W - 200W

THULIUM SURGICAL LASER SYSTEM

Cyber™ represents the family of high power Thulium (Tm:YAG) laser dedicated to **BPH** and **urology treatments**. Other applications include open, laparoscopic or endoscopic surgery to perform incision, excision, resection, ablation, vaporization, coagulation and hemostasis of soft tissues.

Its 2 μm radiation is strongly absorbed by water (highly present in all tissues), so that the cutting and vaporization speed remains relatively constant during the procedure, regardless of tissue vascularization.

The laser beam penetrates only a fraction of a millimeter in the tissue, providing the surgeon with a high degree of control and reducing substantially the risk of inadvertent injury.

General Overview

- ✓ BPH Treatments
- ✓ Minimal Depth of Penetration (0.1 - 0.2 mm)
- ✓ Effective Hemostasis
- ✓ Precise Cutting and Ablation
- ✓ Soft Tissue Surgery
- ✓ Extreme Versatility
- ✓ Quick Patient Recovery

12" Touchscreen

Save & Load
of Settings



Fiber Connection

Transportation
Handle



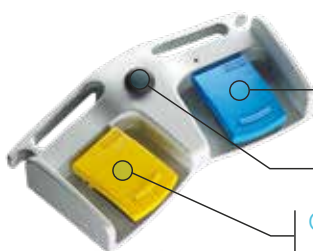
Intuitive GUI

- Selected Application
- Fiber Diameter
200 - 1000 μm
- Emission Mode
Continuous or Pulsed



Wheel Dampers
For easy and safe
device relocation
and transportation

Double Footswitch



Coagulation

Ready / Standby
Switch

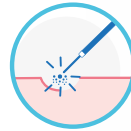
Cutting,
Ablation

The double footswitch enables immediate switch from cutting to coagulation mode, without bothersome interruptions for settings readjustment.

Enucleation *(ThuLEP, ThuVEP)*

EFFECTIVE CUTTING

The limited depth of penetration, together with the fast ablation of targeted tissue, results in precise cut without affecting surrounding tissues



HIGH CUSTOMIZATION

Cutting precision and wavelength versatility allow to tailor the technique to patient's needs and surgeon preference



SIZE INDEPENDENT

Based on clinical studies, ThuLEP was proven to be effective also for big and small prostates, enlarging patient eligibility for treatment



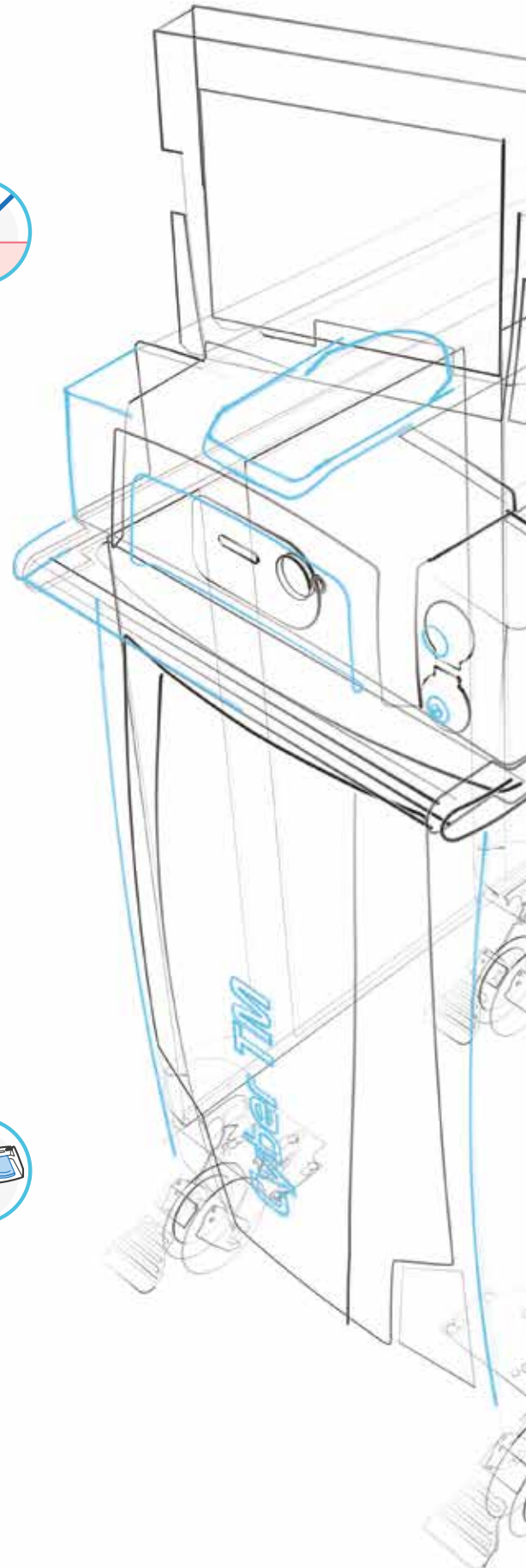
ENHANCED HEMOSTASIS

Thulium radiation allows effective hemostasis already while cutting and quick coagulation of bleeders

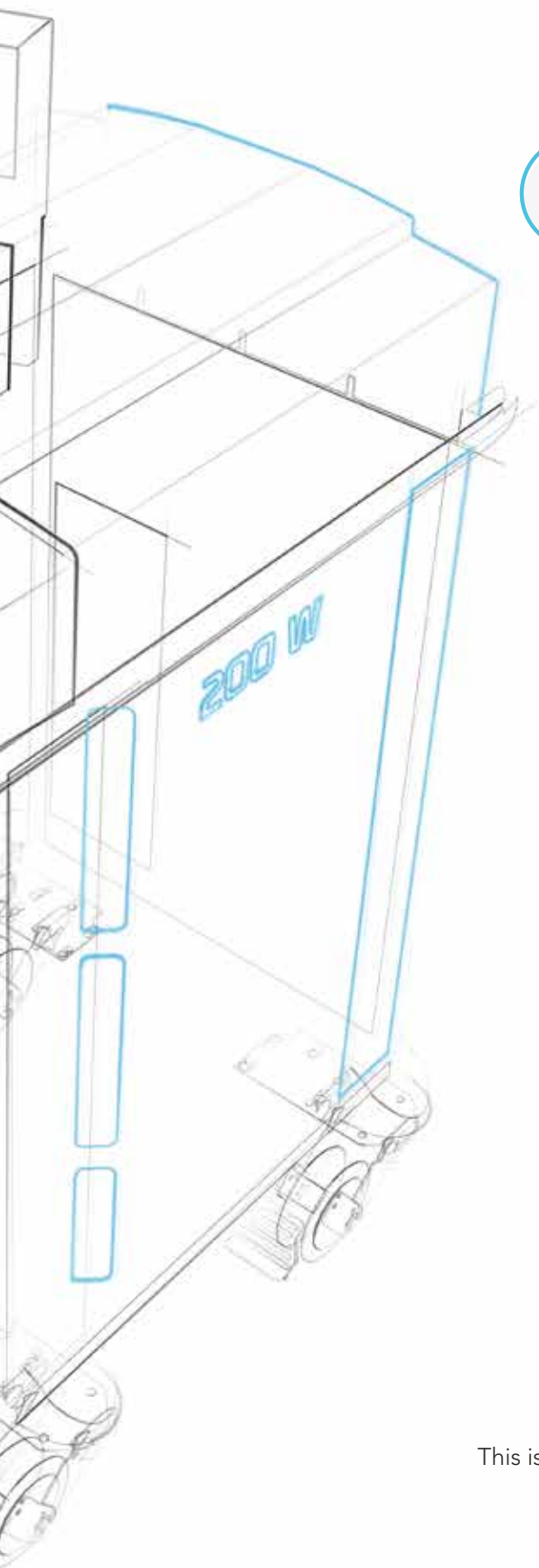


DOUBLE EMISSION

The double footswitch allows immediate switch from cutting to coagulation mode



Vaporization (*ThuVAP*)



EASY TO LEARN

The intuitive layer after layer ablation of the adenoma ensures a short learning curve



NO NEED FOR MORCELLATOR

The complete ablation of the adenoma obviates the morcellation phase



THE FASTEST VAPORIZATION EVER

The 200 W power coupled with the 1000 μ m fiber enables an extremely fast vaporization rate



SIDE AND FRONTAL FIBERS

The side emission allows intuitive adenoma ablation as with Green vaporization, whereas frontal fiber can be used also for cutting, if needed

Concerned about tissue charring?

This is tissue appearance 24 hours only after ThuVAP
Image courtesy of L. Carmignani, MD



Advantages



SUPREME BPH VERSATILITY

Its excellent cutting and ablation quality, together with the high power, allows great freedom of choice regarding the technique to use



FAST RECOVERY

Use of Thulium for BPH was proven to reduce catheterization and hospitalization time with respect to traditional treatments



ENHANCED MULTIDISCIPLINARITY

Cyber TM can be effectively used in specialties other than Urology, such as Thoracic Surgery, ENT and General Surgery



CONFINED DAMAGE

The limited depth of penetration allows great precision and effective control, even with high power emission



200 W POWER

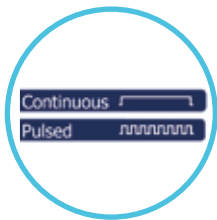
This extreme output power results in high vaporization speed

Complete Solution



SIDE FIBER

The **side** emission allows gentle and intuitive ablation of the adenoma as with Green laser, however the absorption coefficient by Thulium laser in water is greater than that of Green in both blood and water. Vaporization can be performed by **frontal** fiber too



PULSED THULEP

Cyber TM can fire also with pulsed emission: the long pulse duration (up to 75 ms) may be coupled with high power emission



THORACIC SURGERY

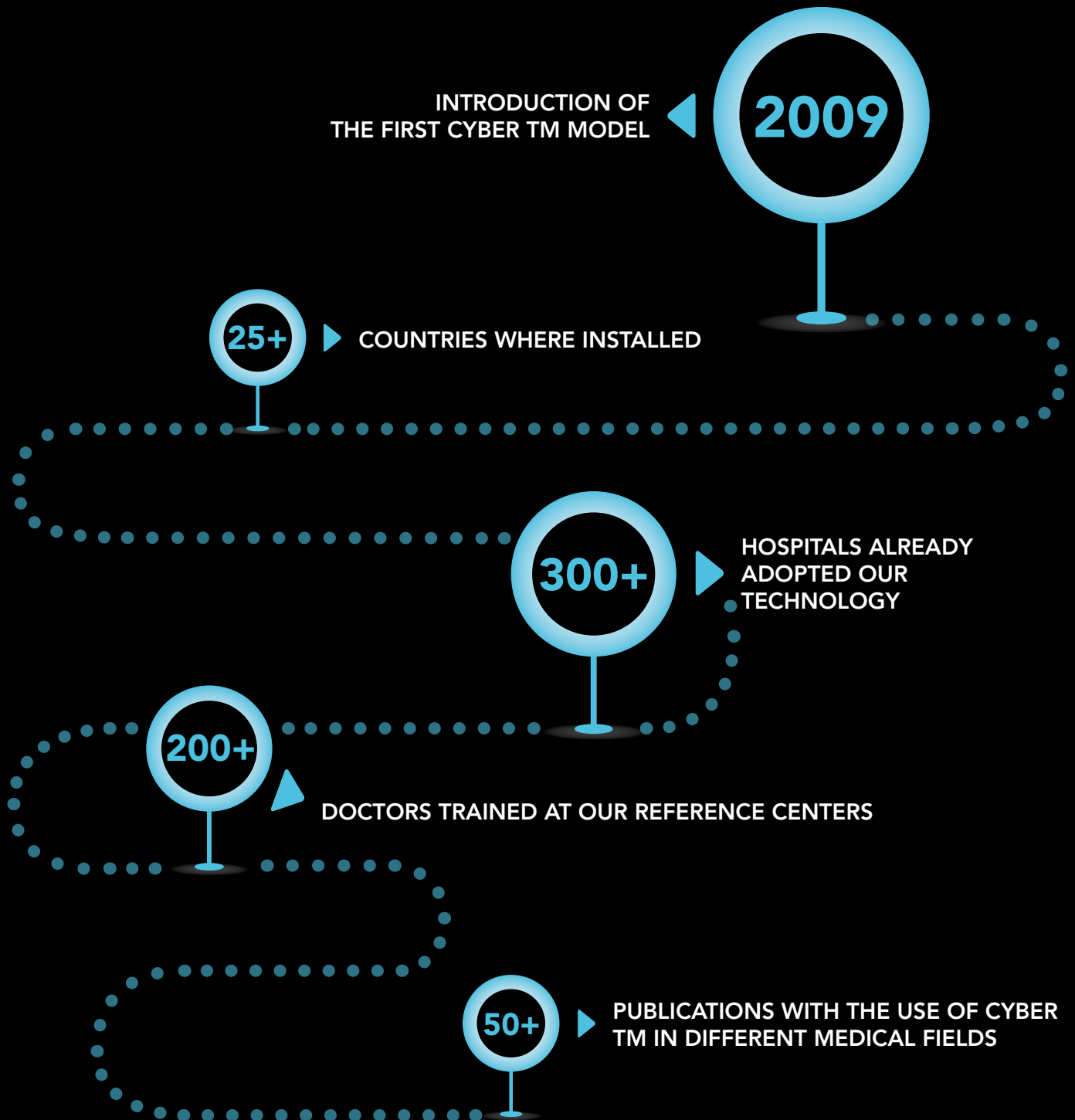
Thulium radiation allows precise resection and ablation in pulmonary and endobronchial surgery



GI SURGERY

Its ablation and coagulation effectiveness come in handy in this field, for soft tissue surgery and hemostasis

Device History



Significant ROI



SHORTER HOSPITALIZATION

Use of Thulium laser was proven to shorten hospital stay with respect to TURP, enabling discharge within 24h after surgery in many cases



FEWER ADVERSE EVENTS

Publications with Cyber TM demonstrate a low incidence of postoperative complications associated with the use of this laser



INTERDISCIPLINARY PLATFORM

Cyber TM's properties allow its use in other urology soft tissue surgery. Furthermore, other hospital wards can benefit of the use of such system, addressing multiple needs from different medical specialties with a unique device

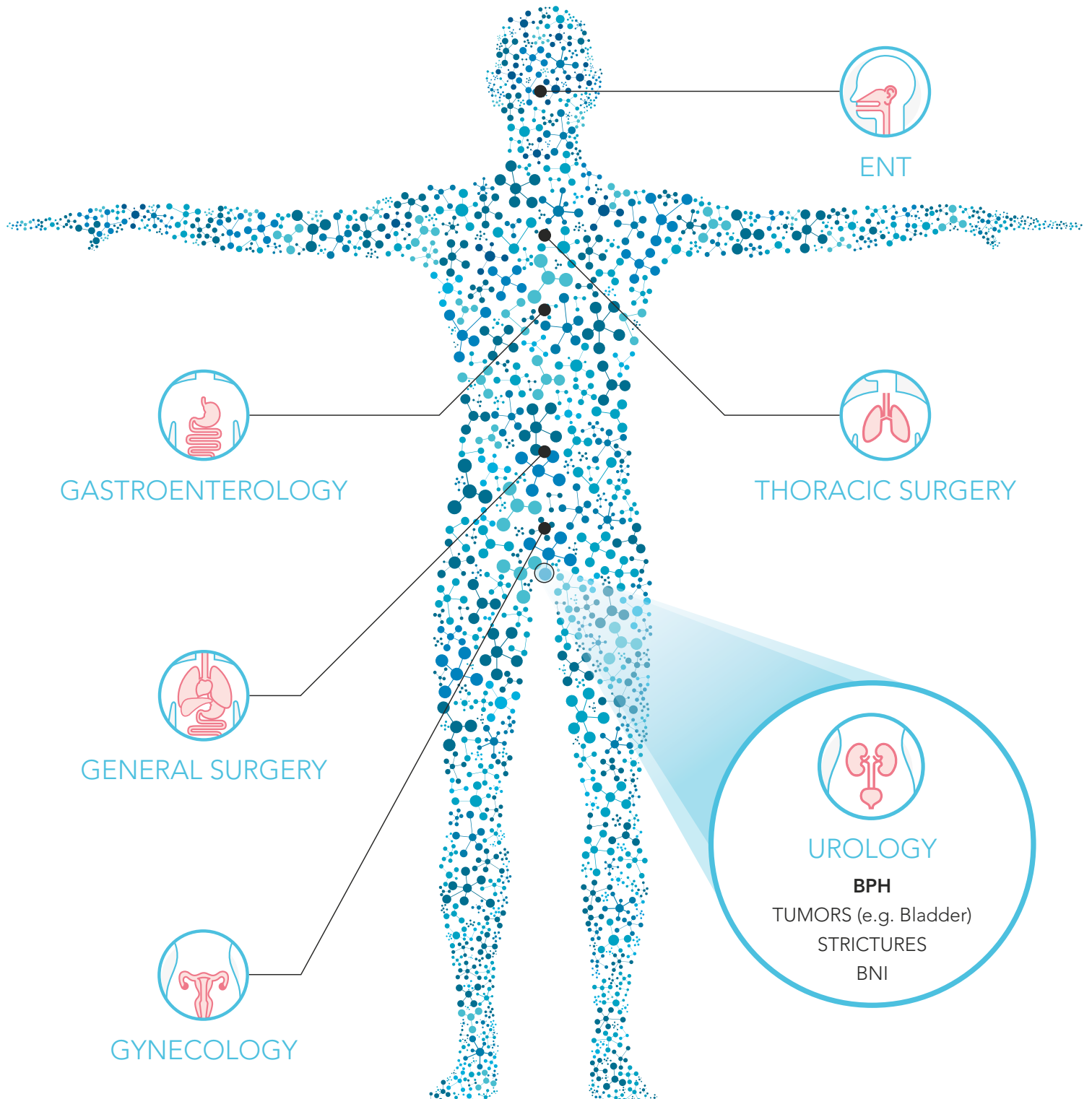


REUSABLE FIBERS

Bare fibers can be resterilized and reused. Conversely, for Green prostate vaporization, only disposable fibers are allowed

Applications

Cyber™ can be used to perform incision, excision, resection, ablation, vaporization, coagulation and hemostasis of soft tissue in various medical specialties, including:



Technical Specifications

Wavelength	2010 nm
Power	Up to 200 W
Power setting	Up to 200 W in 1, 2, 5 W increment steps
Treatment mode	Continuous wave or pulsed (up to 75 ms)
Beam delivery	Wide range of flexible silica frontal and side-firing fibers
Aiming beam	Red (650 nm) or green (532 nm) on choice, adjustable <5 mW) - Class 3R
Electrical requirements	208 Vac, single phase; 50/60 Hz; 18A
Cooling	Internal chiller
Operating temperature	10°C - 30°C
Dimensions and weight	67.6 cm (W) x 82.6 cm (D) x 129.7 cm (H) - 200 kg

This brochure is intended for the U.S. market

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VISIBLE AND INVISIBLE LASER RADIATION

Avoid eye skin exposure to direct or scattered radiation

Laser product: Class 4

Aiming beam: Class 3R



CAUTION - Laser radiation

Rx Only

Note: National local authorities may put restrictions to the parameters indicated in the table in the previous page, or may limit or remove certain intended uses. Specifications are subject to change without notice.

Quanta System products are manufactured according to the International standards and have been cleared by the most important International notified bodies.

The Company is UNI EN ISO 9001:2015 and EN ISO 13485:2016 certified. Quanta System S.p.A. was founded in 1985 and belongs to the El. En. Group (a public company listed in the Star segment of the Italian Stock Exchange) since January 2004.

The company, divided into three business units (medical, scientific and industrial) is specialized in manufacturing of laser and opto-electronic devices.

Quanta System
LASER IN OUR DNA

