THE **Cyber TM 150**

THULIUM SURGICAL LASER SYSTEM

**SPEED > POWER > VERSATILITY**

**THE ULTIMATE SURGICAL TOOL FOR BPH AND BEYOND**

MEDICAL DIVISION

SURGERY

Quanta System

This brochure is not intended for the USA market. Certain Intended Uses/Configurations/Models/Accessories are not cleared for USA.
THULIUM SURGICAL LASER SYSTEM 150 W

UNMATCHED SPEED
Since 2-micron laser wavelength is strongly absorbed by water which is ubiquitous in all tissues, the speed of cutting and vaporization will remain relatively constant regardless of tissue vascularization. The energy from the Cyber TM penetrates only fraction of millimeter in the tissue, providing the surgeon with a high degree of control and reducing substantially the risk of inadvertent injury.

SUPERIOR PRECISION
For cutting and vaporization speed the powerful Cyber TM has no competitor. Also compared to holmium laser, the Cyber TM wavelength is more efficiently absorbed by water, reducing the vaporization time. Due to the cutting characteristics and available laser fibers that Cyber TM offers, the surgeon has an option of vaporization, vaporsection or vapoenucleation which allow the selection of an optimal approach. Only the Cyber TM does it all.

Ultra Fast and Efficient BPH Technique

VAPORIZATION - ThuVAP
VAPO-RESECTION - ThuVARP
VAPO-ENUCLEATION - ThuLEP

Select your technique with Cyber TM 150 W! Now you could choose the right surgical procedure for each prostate dimension and morphology.

Use the Cyber TM in open surgery taking advantage of its exceptional simultaneous effects of ablation and coagulation!

Features for Patients and Doctors:

- Shorter Hospital Stay
- Minimal post-operative catheterization time
- Quick return to normal activities with minimal recovery time
- Minimal blood loss
- Treatments on patients on anticoagulant therapy
- Keeping the integrity of endoscopes and instruments
- Reusable and single use fibers
- Transparent color of safety goggles
- Multidisciplinary System for minimally invasive surgery

UROLOGIC APPLICATIONS

- BPH: ThuVAP, ThuVARP, ThuLEP
  - Excision of tumors
  - Ureterotomy, Urethrotomy
  - Partial Nephrectomy

MULTIDISCIPLINARY APPLICATIONS

- Thoracic Surgery
- ENT
- Neurology
- General Surgery
THULIUM SURGICAL LASER SYSTEM 150 W

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wavelength</strong></td>
<td>2010 nm</td>
</tr>
<tr>
<td><strong>Laser Class</strong></td>
<td>4 (IEC/EN 60825-1:2007)</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>Up to 150 W depending on each local clearance</td>
</tr>
<tr>
<td><strong>Power setting</strong></td>
<td>1 W to 200 W in 1, 2, 5 W increment steps</td>
</tr>
<tr>
<td><strong>Treatment mode</strong></td>
<td>Continuous wave or pulsed (from 25 ms to continue)</td>
</tr>
<tr>
<td><strong>Beam delivery</strong></td>
<td>Wide range of flexible silica frontal and side-firing fibers</td>
</tr>
<tr>
<td><strong>Aiming beam</strong></td>
<td>Red (650 nm) or green (532 nm) on choice, (adjustable ≤5 mW) - Class 3R</td>
</tr>
<tr>
<td><strong>Electrical requirements</strong></td>
<td>230/208 V ac, single phase; 50/60 Hz; 16/18 A</td>
</tr>
<tr>
<td><strong>Cooling</strong></td>
<td>Air cooled (closed water-air cooling circuit)</td>
</tr>
<tr>
<td><strong>Noise level</strong></td>
<td>Less than 58 dBA</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>10°C - 30°C</td>
</tr>
<tr>
<td><strong>Storage temperature</strong></td>
<td>10°C - 40°C</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>30% - 90% - Non condensing</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>21.6 in/55 cm (W) x 29.5 in/75 cm (D) x 43.3 in/110 cm (H)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>440 lbs. 200 kg</td>
</tr>
</tbody>
</table>

**ACCESSORIES**

- 200 µm core 3 m long, sterile single use or 10x reusable
- 400 µm core 3 m long, sterile single use or 10x reusable
- 600 µm core 3 m long, sterile single use or 10x reusable
- 800 µm core 3 m long, sterile single use or 10x reusable
- 1000 µm core 3 m long, sterile single use or 10x reusable
- 600 µm side fiber, 3 m long, sterile single use

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

**CAUTION** - Laser radiation when open and interlocks defeated

**VISIBLE AND INVISIBLE LASER RADIATION**

Avoid eye or skin exposure to direct or scattered radiation

Class 4 laser product

Maximum output laser radiation: ≤50 mW

Wavelength: 1064 nm

Protection: CW

Aiming beam: Class 3R ≤5 mW at 532 nm/650 nm


**ACCESSORIES**

- Fiber Optic Stripper
- Special Sterilizable Fiber Optic Stripper
- Handpiece for open surgery treatment
- Ceramic scissor
Many of the risks associated with other laser wavelengths are minimized or avoided with the Cyber TM.

Safety features include:
- Clear surgical field free of blood, bubbles and debris
- Observable surgical effect – “what you see is what you get” – no unseen deep tissue effects occur
- End-firing laser fibers combined with high water absorption effect results in reduced risk of inadvertent tissue damage
- Minimal bleeding

Clear Surgical Field
The consistent power delivery of the Cyber TM’s continuous wave mode creates steady and clean vaporization or cutting effect which keeps the surgical field clear of bubbles, blood or debris that can impair the surgeon’s vision.

No Unseen Effects
The 2-micron wavelength of the Cyber TM is readily absorbed by water. Therefore, the effect that a surgeon sees is the only effect being created. Other wavelengths penetrate more deeply in tissue giving rise to unwanted effects such as edema and delayed healing.

Energy Delivered Where You Want It
The end-firing fiber of the Cyber TM provides advanced protection from inadvertent misdirected laser light. In addition, the high water absorption characteristics of the 2-micron wavelength avoids the possibility of laser beam traveling through the aqueous surgical field to out-of-the-way tissue.

True Colors with No Glare
Since transparent safety goggles could be used with the Cyber TM, there is no impairment of the surgeon’s vision due to color distortion and no laser glare from the invisible infrared laser beam.