LASERENT

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Cyber TM *family*

Thulium Surgical Laser System
150W / 200W

Cyber TM represents the family of Thulium:YAG laser manufactured by Quanta System and dedicated to applications practiced in open, laparoscopic or endoscopic surgery to perform excision, resection, ablation, vaporization, coagulation and hemostasis of soft tissues.

Cyber TM emits at a wavelength of 2µm that is strongly absorbed by water which is highly present in all tissues. For this reason the speed of cutting and vaporization remains relatively constant during the procedures, 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.

Cyber TM, a laser scalpel, is fast, accurate and safe in the hands of surgeon.

TECHNICAL SPECIFICATIONS

Wavelength	2010 nm
Laser Class	4 (IEC/EN 60825-1:2007)
Power	Up to **200 W**
Power setting	up to 200 W in 1, 2, 5 W increment steps
Treatment mode	Continuous wave or pulsed (pulse duration: min 25ms - max 75ms)
Beam delivery	Wide range of flexible silica frontal and side-firing fibers
Aiming beam	Red (650nm) or green (532nm) on choice, (adjustable < 5 mW) - Class 3R
Electrical requirements	230/208 Vac, single phase; 50/60 Hz; 16/18A
Cooling	Air cooled (forced air with internal chiller)
Noise level	Less than 60 dBA
Operating temperature	10°C - 30°C
Dimensions	21.6 in/55 cm (W) x 29.5 in/75 cm (D) x 43.3 in/110 cm (H)
Weight	440 lbs. 200 kg

Quanta System Q1 LASER IN OUR DNA

Taking care of people, our masterpieces

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1-888-759-5273

CYBER TM *IN BRIEF*

Power Output - 150W / 200W

High precision action without affecting the surrounding tissue

Minimal post-operative catheterization time

Reduction of hospitalization time and return to a normal quality of life

Minimal blood loss also for high-risk patients (ex. anticoagulant therapy)

Multidisciplinary system for minimally invasive surgery

Double footswitch with Ready/Standby switch element

Transparent color of safety goggles

*"Thulium laser enucleation of the prostate is an efficient technique, which is performed with a safe energy source. ThuLEP represents a simple new shift in the endoscopic management of BPH and can be used to treat prostates of any size. This technique improves the scores of questionnaires that are used to assess urinary symptoms and their effect on the QoL in patients. Antegrade ejaculation is mainly conserved in patients who undergo ThuLEP, with good effects on erectile function."**

** Asian Journal of Andrology (2015)17,1-5*
Sexual outcome of patients undergoing Thulium laser enucleation of the prostate for benign prostatic hyperplasia

12" wide color touch screen

Interactive interface with intuitive shortcut to the main function

Smart selection of output settings depending on the operative mode

Save/Load preset for customization of output parameters

The new double footswitch allows the surgeon to control:

- **Black Button** Ready/Standby functions
- **Blue Pedal** Coagulation
- **Yellow Pedal** Vaporization/Ablation action

ENUCLEATION *(ThuLEP- ThuVEP)*

The enucleation technique involves the "detachment" of the prostatic obstructive lobes using the endoscopic instrument for the mechanical action, the laser beam to cut/ablate the resistant tissue components or for a quick hemostatic action.

It is also possible to perform the Enucleation using mainly the laser cutting/vaporization effect instead of the mechanical action. The use of this technique aims at reducing irritative phenomena and gives advantages in patients with coagulative problems.

VAPORIZATION *(ThuVAP)*

This procedure involves the reduction of prostate lobes by laser vaporization of obstructive tissue. Thanks to the characteristics of laser vaporization, with Cyber TM you can use optical fibers with side firing or with frontal emission (reusable). Acting on the water component contained in the tissue, vaporization remains constant throughout the procedure, preserving the characteristics of low-depth coagulation (also when using the 200 W), a key factor for the reduction of dysuria and other postoperative problems.

RESECTION *(ThuVARP)*

This technique involves the reduction of obstructive lobes into small pieces (removable endoscopically without the aid of a Morcellator) via laser resection.

APPLICATIONS

INTENDED USE

The Cyber TM family and its accessories are intended for use in surgical procedures using open, laparoscopic and endoscopic incision, excision, resection, ablation, vaporization, coagulation and hemostasis of soft tissue in use in medical specialties including: Urology, Gastroenterology, Thoracic and Pulmonary, Gynecology, ENT, Dermatology, Plastic Surgery, General Surgery and Arthroscopy.

UROLOGY

BPH | **(ThuVAP - ThuVARP - ThuLEP - ThuVEP)**

Ureteral Tumors - Urethral Tumors - Bladder Tumors - Strictures
Partial Nephrectomy

MULTIDISCIPLINARY APPLICATIONS

Thoracic Surgery - ENT - General Surgery