

FDA CE
0434



Compact, High Precision CO₂ Laser System for Dentistry

Spectra DENTA™



www.maxltd.com

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Spectra DENTA™

The Most *Gentle* Dental Laser

As the preferred choice for dentists, the Spectra DENTA offers your patients laser-assisted surgery for a wide range of soft tissue dental and oral surgical treatments.

Quality

In order to provide consistent laser interaction on oral soft tissue, stable energy and peak power is critical for dental lasers to provide reliable and reproducible results over time. With the built-in Digital Feedback System (DFS), Spectra DENTA offers consistent peak power throughout the duration of every treatment.

The Spectra DENTA advantage :

- ▶ Precise incision, excision and vaporization
- ▶ Clinically proven sterile procedures
- ▶ Minimized risk of unwanted charring and thermal necrosis
- ▶ Wide range of handpiece tips
- ▶ Quality patient care:
 - Pain-free and bloodless procedures
 - Reduced need for anesthesia and sutures
 - Faster wound healing

Precision

The small spot size and minimal absorption depth allows this CO₂ laser to provide an exceptional level of precision. With proper selection of power and delivery mode, it is possible to remove a single layer of cells during intraoral surgery. The Spectra DENTA allows the user precise control to achieve desired results.

Sterilization

Spectra DENTA kill micro-organisms on contact. Completely absorbed by water, the laser heats

the surface of the tissue to temperatures that eliminates bactericidal contamination and inflammation. The outcome allows for highly effective sterilization of the surgical field and minimizes post-operative infections.

Wound Healing

Because there is no direct contact, procedures with the pain and hemorrhage-free Spectra DENTA seal off blood vessels and nerve endings, resulting in faster wound healing without postoperative symptoms.

Handpiece Tips

Spectra DENTA comes with a wide range of on-the-fly swappable handpiece tips to allow physicians to dial in the precise amount of thermal damage.

Safe & Easy to Use

Spectra DENTA is simple and its easy to use functions minimize the risk of charring and collateral thermal damage, resulting in faster healing and greater patient satisfaction. Air regulation and guide beam brightness controls allow for even more convenience to the user.



“No suture,
short procedure time with
minimal discomfort & bleeding”

Soft Tissue

Incision, Excision, instant hemostasis, sterilization, fast wound healing, and pain-free of Soft Tissue in

- Benign and Malignant Tumors and Cysts
- Frenectomy & Frenoplasty
- Gingivectomy & Gingivoplasty
- Gingival Hypertrophy
- Incision & Drainage of Abscesses
- Painless Anesthesia
- Stomatitis/Ulcer/Herpes
- Inner Periodontal Pocket Sterilization
- Sterilization & Dry Root Canals
- Gingival Depigmentation
- Hemostasis after Tooth Extraction
- Pulpotomy
- Root Canal Debridement & Cleaning
- Pain Associated with TMJ

Hard Tissue

- Dentinal Hypersensitivity
- Prevention of dental caries

Implant

- Second Stage of Implant : Implant exposure
- Peri-implantitis



Frenectomy



Gingival Depigmentation



Fibroma



Second Stage of Implant



*Photo : Courtesy of S. Y. Jang, DDS

Spectra DENTA™

System Specifications

Laser Type	Surgical Carbon Dioxide Laser	Display	Graphic LCD
Wavelength	10.6µm	Memory	User programmable settings
Mode Structure	True TEM ₀₀ Mode	Safety	Internal safety shutter & feedback system
Operation Mode & Power	Continuous Wave(CW) mode : 0.5-25W Superpulse mode : 0.1 – 7W Char-Free(CF) mode : 0.1 – 7W	Delivery System	Articulated Arm with 7 mirrors
Pulse Duration	Superpulse mode : 1msec - 5msec Char-Free mode : 40µs - 1000µs	Aiming Beam	Green, 532nm, 1-3mW, Adjustable
Frequency	Superpulse mode : 1Hz - 180Hz Char-Free mode : 1Hz - 700Hz	Power Requirement	12/6A, 110/220V, 50/60Hz, Single Phase
Spot Size	0.2mm	Weight	35kg
		Quality Standards	FDA, CE ISO 9001:2000, EN ISO 13485:2003

Accessories

