WHY LITETOUCH™?

- LiteTouch™ revolutionary technology, the "Laser-in-Handpiece", integrates the entire laser mechanism into the handpiece, creating a direct energy delivery system.
- LiteTouch™ includes a "Gentle Treatment" package with sub ablative low energies.
- LiteTouch™ safely decontaminates implant surfaces without changing the implant structure.
 It is the optimal laser for Peri-implantitis treatments.
- LiteTouch™ is the most ergonomic laser, with almost no limitation of hand movement, allowing easier access to all areas in the oral cavity.
- LiteTouch™ new touchscreen includes a friendly and intuitive user interface, making it simple and easy to use during treatments.
- With Lite Touch™ there is no need for complicated calculations. The software includes an array of adjustable pre-sets for selected procedures.
- LiteTouch™ unique handpiece design, allows easy use, requiring only a very short learning period.
- LiteTouch™ is the smallest Er:YAG dental laser in the industry. It is completely portable and can easily fit into any dental clinic.

Er:YAG Laser-in-Handpiece



- Minimally Invasive
- Laser for All-Tissues
- The Smallest & Most Handy Laser



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Periodontics





Er:YAG Laser-in-Handpiece

PERI-IMPLANTITIS

Peri-Implantitis is becoming increasingly prevalent. Its etiologies are varied and often combined. Among the suggested treatments, the LiteTouch™ Er:YAG laser is an essential tool for any dentist working with implants.

The Erbium laser can be used for the removal of the granulation tissues, of deposits and of calculus, for bone remodeling and implant surface decontamination. Peri-Implantitis treatments with LiteTouchTM Er:YAG laser have several advantages over traditional tools:

- Ablation of the granulation tissue also in areas difficult to reach by conventional tools, can be performed without causing any damage to the implant surface and the adjacent tissues.
- The bactericidal effect of LiteTouch™ Er:YAG laser on bacterial biofilm is well documented.
- The Implant surface decontamination can be performed without causing any thermal side effects to the tissue and the surrounding bone.
- Bone surgery is performed with the LiteTouch™
 laser in a very minimally invasive way, precise
 and selective, while maintaining tissue integrity
 and vascularization.
- LiteTouch™ increases the success rate of tissue regeneration due to its biostimulation effect.

PERIODONTITIS

To date, complete eradication of bacteria cannot be achieved with conventional mechanical therapy alone and therefore, adjunct therapies have been accepted.

Periodontal phototherapy using LiteTouch™ Er:YAG laser has various beneficial effects: the Er:YAG laser can be applied with an extremely low thermal effect when used with water cooling without any damage to the periodontal tissues (such as gingiva, tooth roots and bone tissue).

Moreover, the laser light of Er:YAG is absorbed in the superficial layer and does not penetrate or scatter deeply.

The laser beam can be used with selective action for the removal of granulation tissue and subgingival calculus, leaving the surrounding tissues undamaged and particularly preserving their vascularization. The photo-thermal and photo-mechanical properties of the LiteTouch™ laser destabilize the microbial biofilms within the periodontal pockets while the sub-ablative ability of the laser is used to eliminate the granulation tissue.

Thanks to its powerful bactericidal propriety,

the LiteTouch™ laser may offer advantages for patients with systemic diseases, as LiteTouch™ can reduce the incidence of bacteremia during pocket therapy.



PERIODONTAL MICROSURGERY

The LiteTouch™ Er:YAG laser is a high performance, safe surgical instrument, very useful for periodontal microsurgery. The LiteTouch™ Er:YAG laser can easily cut ,ablate and reshape or sculpt oral soft and osseous tissues in a minimally invasive way with minimal trauma to the below and the surrounding tissues, preserving vascularization. During surgery the Er:YAG laser can also be widely employed for root-surface and bone-defect debridement, that might enhance new attachment due to decreased bacterial loads within the pocket.

The bactericidal effect of LiteTouch™ Er:YAG laser therapy is advantageous, also, for postoperative healing without infectious and inflammatory complications, because of the laser capability to create a disinfected field during surgery and to reduce risk of infection.

Among the available dental lasers, Er:YAG laser treatments result in the most rapid and favorable wound healing with minimal discomfort. This is due to its precise ablation and minimal thermal effects. The low hemostatic effect of LiteTouch™ Er:YAG laser is clinically beneficial as it guarantees

subsequent sufficient bleeding and blood clot formation in the ablated defects and thereby induces favorable and rapid wound healing.

