

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 LiteTouch™ 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.



LITETOUCH™

Er:YAG Laser-in-Handpiece



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

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LIGHT INSTRUMENTS
RISE ABOVE TECHNOLOGY

Aesthetic Dentistry



LITETOUCH™

Er:YAG Laser-in-Handpiece

SOFT TISSUE - Aesthetic Procedures

Gingival smile design - The gingival re-countouring smile design can be performed with LiteTouch™ Er:YAG laser in a very precise, minimally invasive gingival microsurgery, ablating small surfaces (0.2 to 0.4 mm diameter) and then shaping the soft tissue without any thermal damage to the teeth or to the periodontal tissues.

The aesthetic results are excellent, without any infectious and inflammatory post operative complication. The procedure can be performed under topical anesthesia and there is no need for antibiotic coverage due to the powerful bactericidal propriety of the LiteTouch™ laser. Moreover, there is no postoperative pain or discomfort.

Treatment of oral hyperpigmentation - Gingival hyperpigmentation arises due to the excess presence of melanin in certain regions of the gums. Using LiteTouch™ Er:YAG Laser at low energy (Gentle Treatments Mode), under topical anesthesia, the gingival color can be modified with minimal tissue penetration depth, slight bleeding, and without inflammation or any postoperative pain or discomfort.

The use of Er:YAG laser for this treatment is beneficial as it has a low penetration depth thus causing no damage to bone and the surrounding tissues.

HARD TISSUE - Aesthetic Procedures

Debonding of ceramic brackets - The LiteTouch™ Er:YAG laser can dissolve the adhesive resin used to bond brackets to the surface of the teeth. The brackets slide off the teeth enamel very quickly, with no damage to the enamel quickly and effortlessly)

Debonding of ceramic veneers and ceramic crowns - The LiteTouch™ Er:YAG laser can be used for veneer or ceramic crowns debonding by dissolving the cement without damaging the veneer or crown or overheating the pulp.

LiteTouch™ irradiation is not absorbed by the veneer's and crown's material, but is transmitted through the veneer or the crown and is absorbed by organic components and H₂O/OH groups of the resin cement. When enough cement is ablated through the veneer or the crown, it slides off the tooth surface. Veneer or crown removal can be done without damaging tooth structure or the removed piece. This procedure doesn't require anesthetics.

The Straight Handpiece is recommended for the treatment of the front teeth and surgery of bone in the frontal area of the mouth. It is excellent for aesthetic dental procedures.



Straight Handpiece for LiteTouch™

HARD TISSUE - Aesthetic Procedures

Retreatment of aesthetic adhesive restorations - The LiteTouch™ Er:YAG laser can be used for the replacement of composite resin reconstructions. The removal of the composite fillings is performed in a minimal invasive way, without any damage to the tooth structure and with maximum conservation of the dental tissue.

Treatment of secondary caries of aesthetic reconstructions - The LiteTouch™ Er:YAG laser can ablate secondary caries tissue around composite reconstructions or veneers in a very precise mode, ablating small diameter surfaces (0.6-0.8 mm). The absence of vibration helps to avoid micro cracks or any other damage. Thus, the procedure can be done while conserving the integrity of veneers and composite reconstructions.

Dental bleaching - LiteTouch™ Er:YAG laser can activate the oxidizing agent, accelerating teeth bleaching for better patient compliance, without side effects. As the active agent absorbs most of the Er:YAG laser energy, it does not heat the tooth pulp chamber (the temperature increase of the tooth is between 1°-2°c only). Thus, LiteTouch™ Er:YAG laser is the preferred laser wavelength for bleaching procedures.