

WHY LITETOUGH™?

- 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.



LITETOUGH™

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

Maxillofacial Surgery



LITETOUGH™

Er:YAG Laser-in-Handpiece

MAXILLOFACIAL SURGERY

The LiteTouch™ Er:YAG Laser can be used in Oral and maxillofacial surgery (OMS or OMFS) for treating diseases, injuries and defects of the hard and soft tissues of the oral cavity and maxillofacial region (jaw and face).

The small and precise tissue surface ablation, the powerful bactericidal capacity, the good cooling system, the bio-stimulation effect of growth factors, the freedom of hand movement that allows easy access to all areas in the oral cavity and the good vision of the surgical site during surgery, makes the LiteTouch™ Laser the ideal tool for maxilla facial surgery reducing the incidence of iatrogenic complications.

The RINSING handpiece with a continuous stream of only water without air can be used in surgery without the risk of orofacial emphysema that is a complication of high-speed handpieces or diffusing air through soft tissue or dental canals.



Rinsing Handpiece for LiteTouch™

BONE SURGERY

The surgery with Er:YAG LiteTouch™ Laser is performed using an energy that is absorbed in the superficial layers, thus does not penetrate deep into the tissues and does not scatter, ablating layer by layer of the treated tissue while maintaining the below tissue integrity and vascularization.

The advantage of the LiteTouch™ for Osteotomy over other devices can guarantee excellent cutting efficiency without smear layer, no temperature alterations and no trauma to the surrounding and below bone tissue.

Since the Er:YAG Laser ablates precise small surfaces of 0.8-1.3 mm, in a layer by layer mode, without vibrations (which can also cause micro cracks), iatrogenic damage to sensitive structures like nerves can be avoided.

Several studies demonstrated that the osteotomies performed with Er:YAG laser (noncontact mode) healed faster than osteotomies performed by other devices. The healing after bone surgery performed with Er:YAG Laser occurs without infections or inflammatory complications.



THE MAIN ORO-MAXILLOFACIAL LASER APPLICATIONS

Bisphosphonate-Related Osteonecrosis of the Jaw (BRONJ) therapy – Osteonecrosis of the jaw related to the intake of bisphosphonate drugs (administered for systemic diseases such as osteoporosis or used in many cancer diseases for therapy). The LiteTouch™ Er:YAG laser application appears to be a promising modality for BRONJ treatment, eliminating the necrotic bone portions by partial or total resection, as an alternative to conventional rotary devices.

Post-radiogenic Osteonecrosis of the Mandible or the Maxilla - a serious complication in patients with combined treated head/neck tumors. The LiteTouch™ Er:YAG laser can be used for the removal of the infected bone tissue with all the advantages described before.

Biopsy - The incisional and excisional biopsies performed with LiteTouch™ Er:YAG laser have the advantage of producing minimal histological artefacts compared to other lasers or electrocautery, thereby allowing an efficient histological analysis of the excised tissue.

Surgical Extraction of impacted third molars - The LiteTouch™ Er:YAG laser can be used for surgical flap raise, bone removal and tooth section, with less common complications such as infections, dry socket, nerve injuries, postoperative pain, swelling and trismus.

Orthognathic surgery – performed to attain a skeletal class I relationship. Bone surgery can be performed with LiteTouch™ Er:YAG laser due to all the above mentioned advantages in hard tissue surgery.