



LIGHT INSTRUMENTS

RISE ABOVE TECHNOLOGY



LITETOUCH™

Er:YAG Laser-in-Handpiece



CHANGING THE WORLD OF DENTISTRY

THE CEO'S WORDS

It is particularly gratifying to write these words at present as the future of dental lasers has never been brighter.

Light Instruments Ltd. is home to the world's most versatile Er:YAG dental laser device for soft and hard tissue - LiteTouch™.

Our unique laser machine, an Israeli innovation created in the very heart of the start-up nation, is the smallest all-tissue device sold in the dental laser market today. Our revolutionary "Laser-in-Handpiece" technology is unmatched and is changing the way dentists around the world operate.

The development of our new LiteTouch™ model is a significant milestone in the dental laser market. Today we can proudly say that we are standing at the forefront of the dental laser market, with the newest and most exclusive laser device. With a small footprint in the clinic, yet an undeniable global footprint, our new LiteTouch™ device is already an integral device in leading clinics in almost every continent and with our customer-focused approach, we are truly unstoppable.

The key to our success is continues R&D with an ongoing mission to provide dentists around the world with the most-novel laser device and to give them the possibility to offer their patients the best and safest procedures. Thanks to the great passion and hard work of our employees, Light Instruments Ltd. delivers a cutting-edge product with a design like no other.

Our vision is to eliminate the dental phobia patients develop at a young age and to introduce to them a new and different dental experience. One that comes with less pain, healthier treatments and quicker healing time.

This vision comes in the shape of our LiteTouch™.

Eric Ben Mayor
CEO Light Instruments Ltd.





LIGHT INSTRUMENTS
RISE ABOVE TECHNOLOGY

LITETOUGH™

LITETOUGH™ LEVEL UP YOUR CLINIC

Introducing LiteTouch™ Er: YAG laser, the most versatile dental laser for hard & soft tissue treatments. Thanks to miniaturization of its laser technology, the entire power generator is incorporated within the Laser-in-Handpiece mechanism - a small chamber with direct energy delivery.

LiteTouch™ is the smallest device in "all-tissue" lasers category and incorporates unique laser benefits: micro surgery, quicker healing, minimal invasive treatments and higher acceptance of patients to dental treatments.

Equipped with LiteTouch™, dentists can truly perform laser soft tissue and hard tissue procedures with full and free expression of their dental mastery and expertise.



LITETOUGH™ LASER-IN-HANDPIECE



APPLICATOR
120° ROTATION



HANDPIECE
360° SWIVEL



APPLICATOR
FLEXIBLE CORD

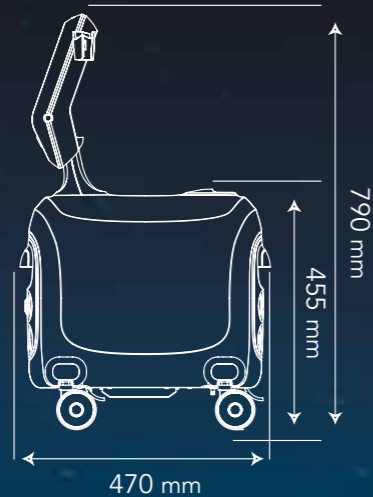
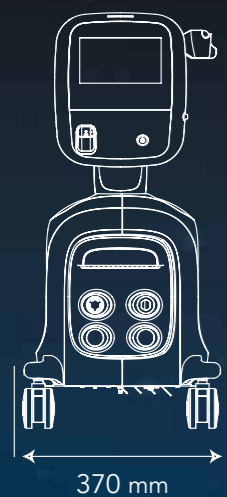


F R E E D O M O F M O V E M E N T



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.



ADVANCED & EASY-TO-USE



LITETOUGH™ - APPLICATION FIELDS

IMPLANTOLOGY



- Precise & minimally invasive bone ablation.
- Second stage surgery without damaging implants.
- Effective treatment modality for Peri-Implantitis.
- Implant decontamination without any damage to the implant surface.
- Sub-ablative disinfection without injuring healthy bone.
- Increased bone-implant contact rate by encouraging bone growth factors.

PERIODONTICS



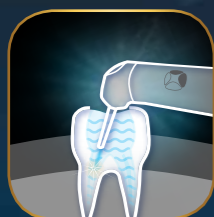
- Effective pocket debridement & bactericidal effect (disinfection).
- Precise & selective granulation tissue ablation.
- Effective and selective calculus removal.
- Minimally invasive surgery. Fast healing of soft tissue and bone.
- Minimal inflammatory and infectious post-operative complications and discomfort.

PEDODONTICS



- The preferred method for treating children: Less fear factor; less noise; no vibrations.
- Precise, gentle and minimally invasive treatments.
- Excellent disinfection of contaminated dentine. Guaranties the success of restoration process.
- Efficient disinfection of occlusal pits and fissures, even in deep ones.
- Friendly equipment for good compliance: Well accepted by children.

ENDODONTICS



- Minimally invasive opening preparation: No thermal damage or micro-cracks.
- Bactericidal and debridement efficiency: Removes smear layer, cleans and disinfects root canals.
- Apicoectomy: Performed in a Minimal Invasive way.

RESTORATIVE DENTISTRY



- Exceptional visibility: Non-contact work .
- Precise & selective ablation of carious lesions; avoids unnecessary ablation of healthy tissues.
- No vibration, No micro cracks and no carbonization.
- Bactericidal effect: decontamination of the remaining dentin.

AESTHETIC DENTISTRY



- Gingival re-contouring smile design.
- Depigmentation of natural melanin deposits.
- Excellent for debonding porcelain veneers and crowns. Allows dentists to re-use veneers while preserving tooth substance.

ORAL PATHOLOGY



- Minimally invasive surgery of benign odontogenic tumor.
- Precise biopsy for safe histological diagnosis.
- An elected tool for therapy of jaw osteonecrosis in bisphosphonate treated patients.
- Efficiently reduces symptoms in different oral diseases.

MAXILOFACIAL SURGERY



- Bone cutting is performed in a precise and selective way, while maintaining tissue integrity.
- Non traumatic osteotomy.
- Bone ablation, with no thermal effects.
- Stimulates bone growth factors (Better Bone Healing).




LITETOUGH™ - TECHNICAL SPECIFICATION


TECHNICAL SPECIFICATION	
Name Laser Classification	LiteTouch™ Class IV
Output Laser Type Wavelength Pulse Energy Power Pulse Repetition Rate Spot Size Distal at End of Tip	Erbium YAG 2940nm Up to 700mJ Up to 8.4 watts on tissue 10-50 Hz 0.2-1.3 mm (tip dependent)
Electrical Requirements	100-240 +/-10% VAC, 13A 50-60 Hz, Single Phase
Protection Against Electric Shock:	Class I, Type BF Applied part
System Dimensions (W x L x H)	Screen extended 37x47x79 cm Screen folded 37x47x64 cm
System Cooling Method	Water Cooling (Built-In refill Bottle)
System Weight	Approx. 55 lbs 25 Kg
Environmental Requirements Treatment room temperature Recommended room temperature Storage - cooling system filled Storage - cooling system drained Relative humidity	5-25°C (41-77°F) 20-25°C (68-77°F) 5-50°C (41-122°F) 2-55°C (35-131°F) Up to 80%

ACCESSORIES


RIGHT HANDED APPLICATOR
LI-FG0015C




LEFT HANDED APPLICATOR
LI-FG0016A




ANGLED HANDPIECE
AS7825X



STRAIGHT HANDPIECE
AS7230X



RINSING HANDPIECE
LI-KT0021X






FDA CLEARED, CE 0483

LITETOUGH™ - TIPS



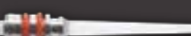
A wide variety of tips can be used with the LiteTouch™, with diameters ranging from 200 to 1300 microns and several options of tip lengths, facilitating access to different areas in the mouth. The laser ablated tissue surface (spot size) correspond to the tip's diameter.

TIPS




0.2 - 0.6 Diameter tips

 AS7565X Pack of 5 Laser tips 0.2 x 17 mm [Ø x Length], green O-ring	 AS7075X Pack of 5 Laser tips 0.4 x 17 mm [Ø x Length], white O-ring	 AS7072X Pack of 5 Laser tips 0.6 x 17 mm [Ø x Length], yellow O-ring
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0.8 Diameter tips

 AS7077X Pack of 5 Laser tips 0.8 x 8 mm [Ø x Length], red O-ring	 AS7074X Pack of 5 Laser tips 0.8 x 14 mm [Ø x Length], red O-ring	 AS7069X Pack of 5 Laser tips 0.8 x 17 mm [Ø x Length], red O-ring
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1.0 Diameter tips

 AS7078X Pack of 5 Laser tips 1.0 x 10 mm [Ø x Length], blue O-ring	 AS7073X Pack of 5 Laser tips 1.0 x 14 mm [Ø x Length], blue O-ring	 AS7068X Pack of 5 Laser tips 1.0 x 17 mm [Ø x Length], blue O-ring
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1.3 Diameter tips

 AS7066X Pack of 5 Laser tips 1.3 x 14 mm [Ø x Length], black O-ring	 AS7065X Pack of 5 Laser tips 1.3 x 17 mm [Ø x Length], black O-ring	 AS7071X Pack of 5 Laser tips 1.3 x 19 mm [Ø x Length], black O-ring
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SPECIAL TIPS

Implant tip  AS7450X Pack of 5 Laser Implant tips 1.3 x 19 mm [Ø x Length], black O-ring	Chisel tip  AS7197X Pack of 5 Chisel Laser tips 1.3 X 17 mm [Ø x Length], green O-ring	Magnum tip  AS7564X Pack of 5 Magnum Laser tips 1.3 X 6.3 mm [Ø x Length], green O-ring
Blade tip  AS0165X Pack of 5 Blade tips 0.4 x 17mm [Ø x Length], black and red O-ring	Side Firing tip  AS7631X Pack of 5 Side Firing Laser tips 1.3 X 19 mm [Ø x Length], green O-ring	

LITETOUCH™

Er:YAG Laser-in-Handpiece



- **MINIMALLY INVASIVE**
- **LASER FOR ALL-TISSUES**
- **THE SMALLEST & MOST HANDY LASER**

ABOUT LIGHT INSTRUMENTS LTD.

Light Instruments Ltd. is the world's leading provider of next generation dental laser technology for hard and soft tissue treatments. In 2007, Light Instruments introduced its revolutionary and innovative Laser-in-Handpiece™ technology as part of its flagship LiteTouch™ product, the world's most versatile non-fiber, Er:YAG dental laser device. The Laser-in-Handpiece™ innovation has played a pivotal role in transforming the way practitioners perform dental treatments today.

LIGHT INSTRUMENTS LTD.

Industrial Zone, P.O.B. 223, Yokneam Elite, Israel 20692

Tel: +972-732563222, Fax: +972-732563214

Web: www.light-inst.com, E-mail: office@light-inst.com

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