



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.





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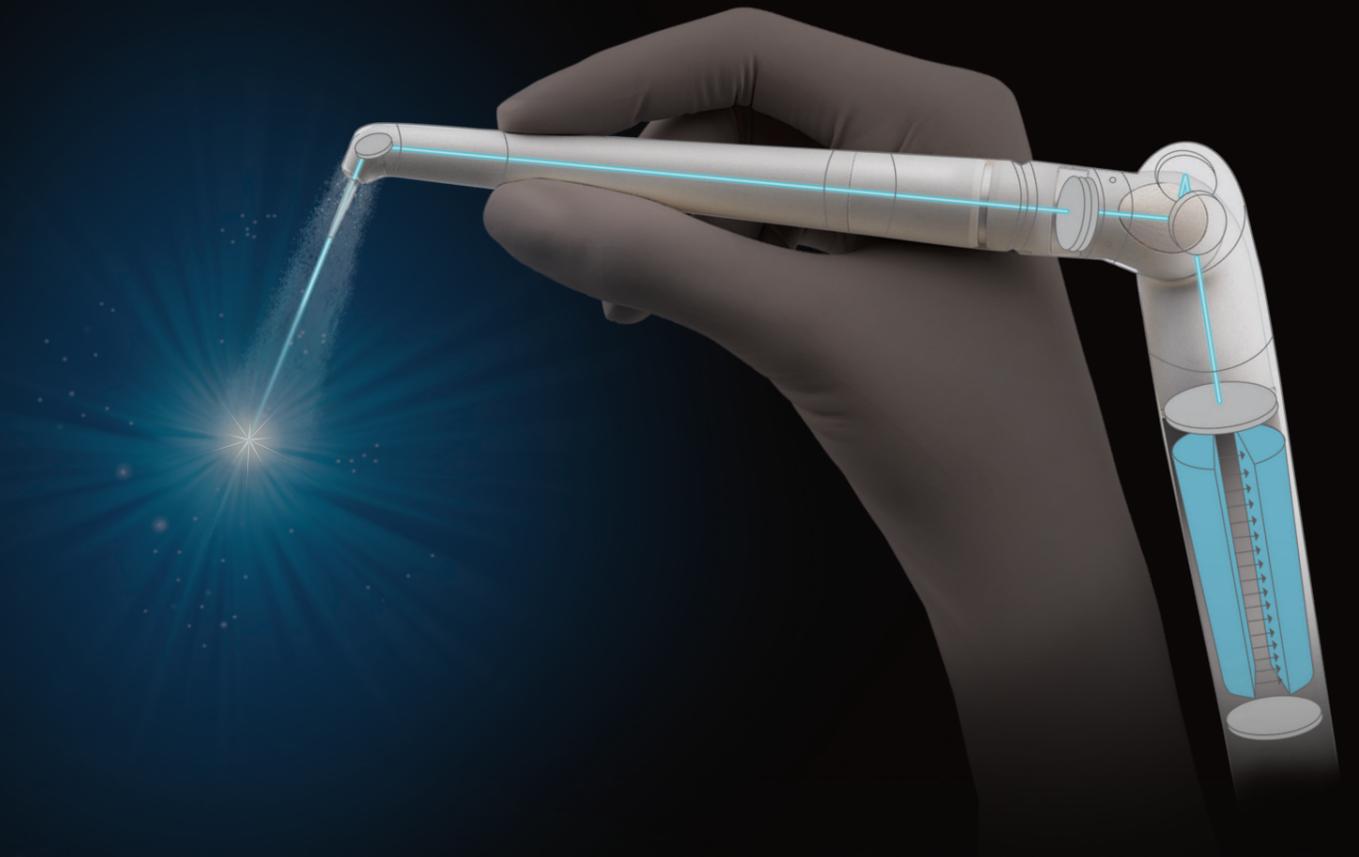
LITETOUGH™

# 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



reddot award 2016  
winner

F R E E D O M   O F   M O V E M E N T



## 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.



ADVANCED & EASY-TO-USE



## LITETOUGH™ - APPLICATION FIELDS



### AESTHETIC DENTISTRY

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



### 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.



### IMPLANTOLOGY

- Precise & minimally invasive bone ablation.
- Non traumatic bone preparation for implant anchorage.
- 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.



### 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.
- An elected tool for therapy of jaw osteonecrosis in bisphosphonate treated patients.
- Stimulates bone growth factors (Better Bone Healing).



### ORAL PATHOLOGY

- Minimally invasive surgery of benign odontogenic tumor.
- Precise biopsy for safe histological diagnosis.
- Efficiently reduces symptoms in different oral pathologies.



### ORAL SURGERY

- Minimal invasive surgery of oral soft tissue and bone.
- Precise clear cut.
- Bactericidal effect: disinfection of the surgical site.
- Fast healing of soft tissue and bone. No trauma to the treated tissues.
- Non inflammatory and infectious post-operative complications or discomfort.



### ORTHODONTICS

- Fast and safe removal of ceramic orthodontic brackets.
- Useful for removing remnant adhesive material from the enamel surface after debonding.
- An efficient alternative to acid-etching for enamel surface preparation prior to bracket bonding.



### PEDIATRIC DENTISTRY

- 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.



### 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.



### 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.



**LITETOUGH™ - TECHNICAL SPECIFICATION**

TECHNICAL SPECIFICATION	
Name	LiteTouch™
Laser Classification	Class IV
Output	
Laser Type	Erbium YAG
Wavelength	2940nm
Pulse Energy	Up to 700mJ
Power	Up to 8.4 watts on tissue
Pulse Repetition Rate	10-50 Hz
Spot Size Distal at End of Tip	0.2-1.3 mm (tip dependent)
System Weight	25 Kg 55 lbs
System Dimensions (W x L x H)	Screen extended: 37x47x79 cm 14.6"x18.5"x31.1" Screen folded: 37x47x64 cm 14.6"x18.5"x24.8"

37 cm

79 cm

**ACCESSORIES**



**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 tips 0.2 x 17 mm  
[Ø x Length], green O-ring



AS7075X  
Pack of 5 tips 0.4 x 17 mm  
[Ø x Length], white O-ring



AS7072X  
Pack of 5 tips 0.6 x 17 mm  
[Ø x Length], yellow O-ring

**0.8 Diameter tips**



AS7077X  
Pack of 5 tips 0.8 x 8 mm  
[Ø x Length], red O-ring



AS7074X  
Pack of 5 tips 0.8 x 14 mm  
[Ø x Length], red O-ring



AS7069X  
Pack of 5 tips 0.8 x 17 mm  
[Ø x Length], red O-ring

**1.0 Diameter tips**



AS7078X  
Pack of 5 tips 1.0 x 10 mm  
[Ø x Length], blue O-ring



AS7073X  
Pack of 5 tips 1.0 x 14 mm  
[Ø x Length], blue O-ring



AS7068X  
Pack of 5 tips 1.0 x 17 mm  
[Ø x Length], blue O-ring

**1.3 Diameter tips**



AS7066X  
Pack of 5 tips 1.3 x 14 mm  
[Ø x Length], black O-ring



AS7065X  
Pack of 5 tips 1.3 x 17 mm  
[Ø x Length], black O-ring



AS7071X  
Pack of 5 tips 1.3 x 19 mm  
[Ø x Length], black O-ring

**SPECIAL TIPS**

**Implant tip**



AS7450X  
Pack of 5 Implant tips 1.3 x 19 mm  
[Ø x Length], black O-ring

**Chisel tip**



AS7197X  
Pack of 5 Chisel tips 1.3 x 17 mm  
[Ø x Length], green O-ring

**Magnum tip**



AS7564X  
Pack of 5 Magnum 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 tips 1.3 x 19 mm  
[Ø x Length], green O-ring

**Endo tip**



LI-FG4001A  
Pack of 5 Endo tips 0.3 x 25 mm  
[Ø x Length], blue and white 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.**

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