



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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RISE ABOVE TECHNOLOGY

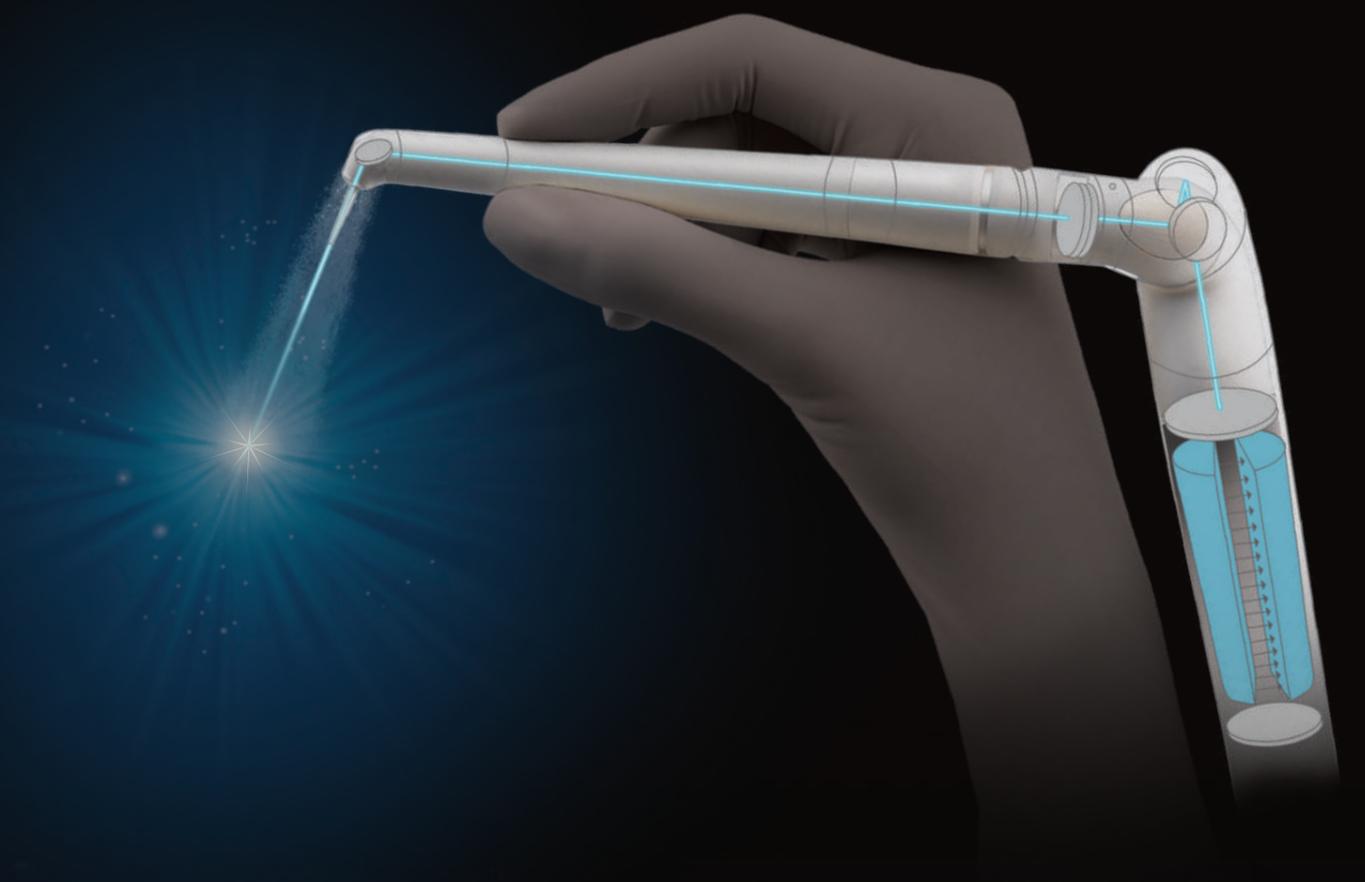
LITETOUCH™

LITETOUCH™ 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.



LITETOUCH™ 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 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



LITETOUCH™ - 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.



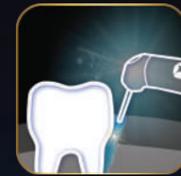
ORTHODONTICS

- 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 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)
System Weight	Approx. 55 lbs 25 Kg
System Dimensions (W x L x H)	Screen extended 37x47x79 cm Screen folded 37x47x64 cm

37 cm

79 cm

ACCESSORIES

RIGHT HANDED
APPLICATOR

LEFT HANDED
APPLICATOR

ANGLED HANDPIECE

STRAIGHT HANDPIECE

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 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 |
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Chisel tip

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

- | |
|--|
|
AS7564X
Pack of 5 Magnum tips 1.3 x 6.3 mm
[Ø x Length], green O-ring |
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Blade tip

- | |
|---|
|
AS0165X
Pack of 5 Blade tips 0.4 x 17mm
[Ø x Length], black and red O-ring |
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Side Firing tip

- | |
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|
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 |
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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.

P.O.B. 223, Yokneam 2069203 Israel

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

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

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