



DYL - 3411 Dental Yag Laser



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net



Product Introduction

Introducing the most versatile dental laser for hard & soft tissue treatment.

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.

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

Features

- Revolutionary technology, the "Laser-in-Handpiece", integrates the entire laser mechanism into the handpiece, creating a direct energy delivery system.
- Includes a "Gentle Treatment" package with sub ablative low energies.
- Safely decontaminates implant surfaces without changing the implant structure. It is the optimal laser for Peri-implantitis treatments.
- The most ergonomic laser, with almost no limitation of hand movement, allowing easier access to all areas in the oral cavity.
- New touchscreen includes a friendly and intuitive user interface, making it simple and easy to use during treatments.
- There is no need for complicated calculations. The software includes an array of adjustable pre-sets for selected procedures.
- Unique handpiece design, allows easy use, requiring only a very short learning period.

• The smallest Er:YAG dental laser in the industry. It is completely portable and can easily fit into any dental clinic.







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.



- 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.





- 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).

>> Technical Specification

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)

Electrical Requirements 100-240 +-10% VAC, 13A

Protection Against 50-60 Hz, Single Phase

Electric Shock: Class I, Type BF Applied part

Screen extended

System Dimensions 37x47x79 cm (W x L x H) Screen folded

37x47x64 cm

Water Cooling

System Cooling Method (Built-In refill Bottle)

Approx. 55 lbs

System Weight 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





ANGLED HANDPIECE



STRAIGHT HANDPIECE



RINSING HANDPIECE





A wide variety of tips can be used 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



Pack of 5 Laser tips 0.2 x 17 mm [Ø x Length], green O-ring



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



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

0.8 Diameter tips



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



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

1.0 Diameter tips



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



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



1.3 Diameter tips



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



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



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

SPECIAL TIPS

Implant tip



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

Chisel tip



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

Magnum tip



Pack of 5 Magnum Laser tips 1.3 X 6.3 mm [Ø x Length], green O-ring

Blade tip



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

Side firing tip



Pack of 5 Side Firing Laser tips 1.3 X 19 mm [Ø x Length], green O-ring

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



HPLC Servicing, Validation, Trainings and Preventive Maintenance:

HPLC Servicing: HPLC Servicing: We have team of service engineers who can attend to any make of HPLC promptly @the most

affordable cost.

Trainings :We also take up preventive Maintenace to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-

shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments: We offer instruments/Renting Services Modules like pumps, detector etc. on Rent.





About Analytical Technologies

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Our Products & Technologies



UV/VIS Spectro 2080+ Double Beam



Infra FTIR



Optima Gas Chromatograph 3007



Optima Gas Chromatograph 2979 Plus



Flash Chromatograph



Atomic Absorption Spectrophotometer



Liquid Partical Counter



Optical Emission Spectrophotometer



DSC/TGA



Semi Auto Bio Chemistry Analyzer



HEMA 2062 Hematology Analyzer



Micro Plate Reader/Washer



URINOVA 2800 Urine Analyzer



Total Organic Carbon 3800



Fully Automated CLIA



NOVA-2100 Chemistry Analyzer



PCR/Gradient PCR/ RTPCR



TOC Analyzer



Laser Particle Size Analyzer



Ion Chromatograph



Water purification system

Regulatory compliances



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- 2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.
- 3. ANALYTICAL FOUNDATION aims to DETOXIFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.





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