NovoLase
Light Inspired!

Presenting

NOVOLASE GOLD 2.0

New Generation of Advanced 'All-in-One' Diodes!

newgold.novolase.in

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+91 84318 16572

Clinical Applications and Technical Specifications

LASER SURGERY

Frenectomy / Frenotomy / Tongue Tie / TOTS Release / Mucocele Excision / Uncovering unerupted teeth / Ortho Exposures / Implant Uncovering / CLP / Perio Flaps / Oral Surgical Procedures

AESTHETIC DENTISTRY & NEW GEN ORGANIC TEETH WHITENING

- Aesthetic Gingival Contouring
- Aesthetic Gingival Depigmentation
- ZERO sensitivity 'Peroxide-Free' Organic Laser Whitening with 24K Gold Gel and LASER WHITENING STRIPS

ADVANCED PHOTODYNAMIC THERAPY

with Both **Green** & **Blue** Dyes for

- Flapless Perio
- Prevention & Treatment of Peri-Implantitis
- Bacterial / Viral / Fungal infections of the mouth and lips including Herpes

ACCELERATED ORTHO & ALIGNERS

Acceleration of Orthodontic Tooth movement and Bone remodelling when used with any fixed prescription like MBT / DAMON / Aligners of any make.

360° ENDODONTICS

- Painless Root Canal Rx (Combo mode)
- PAD (Chitosan Enriched Blue Dye) & 3D canal disinfection with FLEXI 18 system to convert 95% RCTs to Single Visit!
- Post Obturation Enhancement of Periapical Healing and Prevention of flare-ups after single visit endo

ADVANCED PHOTOBIOMODULATION

In 'Combo Coherence' with Red & Infrared wavelengths firing together.

- Oral & Facial trauma
- OSMF and other PMODs
- Burning Mouth Syndrome
- Non Healing Oral Ulcers
- Cancer Mucositis

PRE & POST IMPLANT PLACEMENT ANALGESIA plus Enhancement of **Osseo-Integration** by Osteoblast stimulation (In Combo Coherence mode with both RED & NIR firing together)

Product Model	NOVOLASE GOLD
Laser Type	GaAlAs Diode
Laser System	Class IV
Wavelength	810 nm + 650 nm
Power	10W + 300mW
Operation Mode	CW / Single Or Repeat Pulses
Pulse Duration	10μs - 3 s
Repetition Rate	1Hz - 20kHz
IP Degree of Protection	Footswitch (Waterproof) IPX8
Aiming Beam	650nm, Power<5mW
Control Mode	True Color Touch Screen (7 inches, resolution 600*1024)
Power Supply	100V-240V ~at 2.0A
Dimensions	187(L)*180(W)*222(H)mm
Weight	2.0KG

Comprehensive Range of Accessories

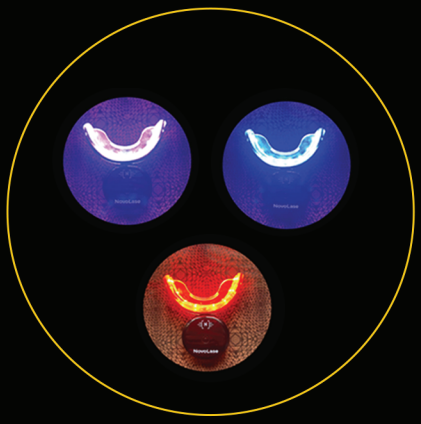
Permanent
Multi-functional
Handpiece

Advanced
Whitening Prism

Advanced
PBM / PDT Tip

TMJ Cone & Pain
Therapy

3rd Gen Polyimide
Bendable Tips



3 Wavelength
Wireless MIC Device

'Peroxide Free'
Organic Laser
Whitening

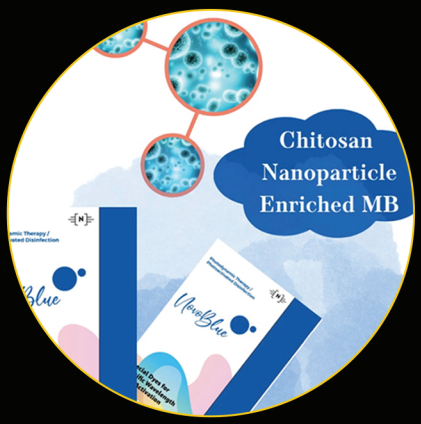


Photo Activated
Disinfection (PAD) System

Newly Launched
Flexi - 18 Curved
Endo Tip

How the use of a dedicated Docking Station enhances the life of a Diode Laser?

Vibration and Shock Reduction

Dedicated carts or stands are designed to securely hold the laser device in place. They absorb vibrations and shocks that might otherwise be transmitted to the laser diode during movement or handling. This reduces the risk of mechanical stress, which can extend the diode's lifespan.

Stability During Operation

Laser diodes are sensitive to movement and mechanical stress during operation. A stable docking stand ensures that the laser device remains steady, minimizing the risk of misalignment or damage to the diode due to vibrations or jostling.

Optimal Cooling

Many docking stands are designed with cooling in mind. They often have built-in ventilation systems to dissipate heat generated by the laser diode during use. Maintaining an optimal operating temperature is crucial for the longevity of laser diodes, as excessive heat can degrade their performance and lifespan.

Protection During Transport

When moving the laser device, especially in institutions or clinical field applications, a dedicated cart provides a safe and secure way to transport it. This reduces the chances of physical damage to the laser diode caused by accidental drops or bumps.

Proper Cable Management

Docking stands often include cable management systems, which prevent strain on the cables connected to the laser device. Strain on cables can lead to premature wear and tear, and a dedicated stand ensures that cables are organized and protected.

Secure Power Supply

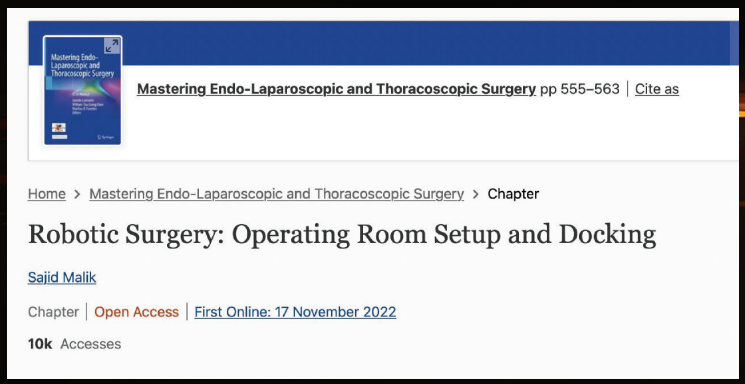
Docking stations provide a stable and clean place to power up the laser diode. This reduces the risk of power fluctuations or surges that are common when laser diodes are placed in close proximity to other dental devices due to electromagnetic interferences which can harm the diode. It also prevents accidental disconnection of the power source during critical operations.

Dust and Contaminant Protection

Depending on the environment in which the laser diode is used, a dedicated stand can offer protection against dust, debris, water, saliva and other body contaminants (when placed on the dental chair tray) that could otherwise accumulate on the diode's optical components and degrade its performance over time.

Ergonomic Design & Streamlined Connectivity

Many docking stations are designed with ergonomics in mind. They often allow you to position your laser device at a comfortable viewing or operating angle, reducing strain on your neck and back during prolonged use.



Mastering Endo-Laparoscopic and Thoracoscopic Surgery pp 555–563 | Cite as

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Robotic Surgery: Operating Room Setup and Docking

Sajid Malik

Chapter | Open Access | First Online: 17 November 2022

10k Accesses

Corporate Social Responsibility

Part of the money that you pay towards the purchase of any Novolase product, will go towards making an Innocent child's life better!

Novolase Technologies is a registered monthly donor with UNICEF, India.

Donor ID: **357190**

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