

Technical specifications.

HANDPIECE

Dimensions	Length: 7.2" (183 mm), with battery attached Diameter: 0.74" (18.7 mm)
Weight	0.22 lb (98 g), with battery attached
Laser Classification	IV (4)
Medium	AlGaInAs
Wavelength	940 ± 15 nm
Max Peak Output Power	5 W
Max Continuous Wave	
Output Power	3 W
Power Modes	Continuous Wave 50% Duty Cycle (1 ms ON / 1 ms OFF) 33% Duty Cycle (0.1 ms ON / 0.2 ms OFF)
Pulse Repetition Rate	Up to 3.3 KHz
Fiber Tips Diameter	200, 300, 400 µm
NOHD	2.61 m
Beam Divergence	6° to 9° per side angle
Aiming Beam	Laser Diode, max 0.5 mW (from 200 µm tip), 635 ± 10 nm
Battery Power	Single, rechargeable Li-Ion assembly; 3.7 VDC, 650 mA-h
Main Control	Insertion/Removal of Battery
User Interface	LED display screen 3-way navigation button finger switch for laser actuation
Presets	10 factory-loaded & user-customizable 2 extra user-customizable

CHARGING STATION

Dimensions	W x H x D (4.72" x 2.5" x 3.95") (120 x 70 x 100 mm)
Weight	0.86 lb (390 g)
Electrical Operating Voltage	100 to 240 ~ at 2 A
Frequency	50 / 60 Hz
External Fuses	None
Main Control	Power Cable Input
Charging Ports	4



Introducing the world's first personal laser.



About Biolase.

Founded in 1986, Biolase Technology, Inc., specializes in lasers for medicine and dentistry that feature proprietary and patented technologies for reducing pain and improving clinical results.

Biolase leads the global dental laser market with over 12,000 lasers in use today and the most complete family of dental lasers – from diode lasers to the most advanced soft- and hard-tissue laser, the Waterlase MD™ Turbo.

Only Biolase combines the leading laser technology – continuously improved through ongoing clinical R&D and engineering – with unmatched training, practice integration support and service.

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Therapy with New
Attachment, and Biolase
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5200128 Rev A
CE 0482

Compact. Powerful. Affordable.

A new level of convenience and efficiency for the operator.



The iLase™ diode dental laser. Created for clinicians to perform the most common minimally invasive soft-tissue and hygiene procedures.

Beyond portable.

Unlike typical portable lasers that require a foot pedal and cords, iLase™ is completely self-contained in a single, integrated handpiece. All the power and control is concentrated in one hand for uniquely personal performance. Dentists and hygienists will both experience unrestricted, focused function like never before.



The iLase™
Personal Dental
Diode Laser

Versatility at the touch of a finger.

The key to the intuitive operation of the iLase™ is its exclusive finger switch. Far more than a simple button, the switch is over one inch long and can be operated with light pressure anywhere along the circumference of the handpiece. The ability to engage the switch from different positions on the iLase™ allows maximum comfort and working efficiency, whether performing procedures in the anterior or posterior.

The iLase™ also features “standby” and “ready mode” functions that guard against unintentional delivery of laser energy.



Presets that perform.

The iLase™ is the ideal tool for performing a comprehensive set of 25 soft-tissue and hygiene procedures. For optimum efficiency, recommended values for power and pulse mode are factory installed for 10 common soft tissue procedures:

Gingival troughing for better crown impressions, gingivectomies, treatment of perio pockets, frenectomies, excisions, aphthous ulcers, hemostasis, exposure of unerupted teeth, access for implant osteotomy and implant recovery, and crown lengthening.

Additionally, the iLase™ features two extra custom presets that can be easily set by the clinician. And for even more personalized performance, all factory installed preset values can be changed, saved, and later restored.

The iLase™ single-use tips are bendable for maximum access to all areas of the mouth. Tips are available in a variety of lengths and diameters to provide the best clinical results for the procedure being performed, without changing fibers.

Comfort for all.

The iLase™ features Biolase’s unique ComfortPulse™ mode of operation. It allows the clinician to deliver laser energy in very short pulses, minimizing thermal damage to tissue. The result is reduced patient discomfort and a reduced need for anesthetic.

The precise ergonomics of the iLase™ handpiece also reduce fatigue for clinicians. The entire iLase™ handpiece, with battery and shroud attached, weighs less than 100 g. Locating the center of gravity at the point where the user’s thumb and index finger meet greatly reduces the arm, wrist, and hand force required to operate the iLase™ throughout the day.



Power that lasts.

The iLase™ delivers 5 Watts of peak laser power, and up to 3 Watts of continuous wave laser power. All without cords, outlets or foot pedals. Which makes its battery life all the more impressive. Longer procedures, such as sulcular debridement, can be completed with a single fully charged battery. For shorter procedures, such as single-tooth troughing for crown preparation, a fully charged battery can last for several patients or procedures.

The iLase™ charging station recharges up to four iLase™ batteries simultaneously, and batteries can be recharged whether or not they are connected to the handpiece.

Personal pricing.

The iLase™ was designed to be affordable, so that each dentist and hygienist can work with his or her own laser. One more way the iLase™ is taking truly personal performance to a whole new level.

