The Waterlase® MD features an all-new MD laser technology platform that heralds the next generation of dentistry with superior clinical outcomes and a more pleasant patient experience for many dental procedures. The Waterlase MD incorporates an extraordinary set of innovative new features, as well as many new features requested by laser owners from around the world. The Waterlase MD also features an all-new chassis that contains components, materials and design technology from the same creative minds that put high-performance luxury automobiles on the road (Mercedes Benz-AMG), and NASA’s rockets into orbit (Northrup Grumman).

Introducing the Waterlase® MD
“Consistent results, ease of use, excellent patient care - the new Waterlase MD has it all.”

Michael Koceja, DDS
Private Practice • San Marcos, California

Featuring the most advanced, state-of-the-art design ever introduced in laser dentistry, the Waterlase® MD’s handpiece is built using aerospace materials for extreme durability and complete comfort. The all-new HydroBeam™ handpiece is a 360˚ fully rotating instrument with exclusive contra-angle design and an ultra-low-mass head for maximum visibility in the surgical field. Plus, laser dentists can take advantage of an exclusive ultra-white, shadow-free LED illumination system.

HydroBeam™ Features

- Ultra-white, shadow-free illumination from the handpiece based on cutting-edge, bulb-free LED light technology — a first for dental lasers. This new feature significantly enhances visibility in the surgical field.
- Contra-angle, 360˚ rotatable handpiece for supreme comfort and easier access to all areas of the oral cavity.
- ComfortJet™ air/water delivery system for maximum patient comfort, enhanced visibility for the clinician and improved clinical results.
- Advanced materials and componentry based on NASA and aerospace technology — improved reliability and ergonomics.
- Ultra low-mass handpiece head design, greatly maximizing visibility and access.

The Waterlase® MD’s new contra-angle, illumination handpiece and touch screen panel are major advancements for laser dentistry. Consistent results, ease of use, excellent patient care - the new Waterlase MD has it all. This laser enables me to provide a wide range of dental procedures at the level my patients have come to expect. Incorporating the Waterlase MD has re-energized my practice, my patients, and it has brought a new level of excitement to practicing dentistry.”
The Waterlase® MD features a dazzling, new high-resolution control system, using Windows® CE with intelligent touch-screen navigation for complete on-the-fly control. Whether you need advice for choosing a tip for a procedure, or suggestions for power settings, the Waterlase MD’s new LaserPal™ help system is at your service.

“The suite of new features that have not previously been available on any other laser gives me a degree of control to cut tissue far more effectively and precisely than ever before. After using the Waterlase MD, I cannot think of any objection or rationale that isn’t completely addressed by the new features of this laser.”

James Jesse, DDS
Private Practice • Loma Linda, California

**SensaTouch™ Features**
- 10 to 50 hz selectable pulse repetition rate for expanded versatility across all tissue types
- Touch-screen control system features Windows® CE
- Unique, selectable pulse modes for hard and soft tissue, with enhanced coagulation capabilities
- 0.1 to 8.0 watts of power for precise, rapid tissue ablation
- 16 optimized, factory-loaded pre-sets for new users and completely customizable for experienced laser dentists
- On-the-fly LaserPal™ help system to enhance training and suggestions for proper tips and settings
Soft Tissue Procedures

**Gingivectomy & Frenectomy**

- Incision, excision, vaporization, ablation and coagulation of oral soft tissues
- Excisional and incisional biopsies
- Exposure of unerupted teeth
- Fibroma removal
- Flap preparation – incision of soft tissue to prepare a flap and expose the bone.
- Frenectomy and frenotomy
- Gingival troughing for crown impressions
- Gingivectomy
- Hemostasis
- Implant recovery
- Incision and drainage of abscesses
- Operculectomy
- Pulpotomy
- Pulp extirpation
- Pulpotomy as an adjunct to root canal therapy
- Root canal debridement and cleaning
- Removal of pathological tissues from around the apex
- Soft tissue crown lengthening
- Sulcular debridement
- Treatment of canker sores, herpetic and aphthous ulcers of the oral mucosa
- Vestibuloplasty
- Flap preparation – incision of soft tissue to prepare a flap and expose unerupted teeth (hard and soft tissue impactions)
- Removal of granulation tissue from bony defects
- Laser soft tissue curettage

**Additional Soft Tissue Procedures**

- Incisional and excisional biopsies
- Exposure of unerupted teeth
- Fibroma removal
- Flap preparation – incision of soft tissue to prepare a flap and expose unerupted teeth (hard and soft tissue impactions)
- Removal of granulation tissue from bony defects
- Laser soft tissue curettage

"When I first tried the Waterlase, it blew me away; I couldn’t believe what I saw. For the first time, I was using a product that actually did what its manufacturer claimed. It’s easy to quantify what the YSGG laser has done for my business: referrals have shot way up, production is through the roof, and I am doing a wider range of procedures than ever before."

**Christopher Walinski, DDS**

Private Practice • Fall River, Massachusetts

“I am grateful that our family dentist is using lasers, which makes dentistry exciting for my kids.”

J. Rossiter
“The Waterlase® is a remarkable tool in my practice. Time and time again, I’ve been so impressed with its clinical capabilities from cutting soft tissue, enamel – even bone. The results are excellent for the patient, and my patients have never been happier.”

David Eshom, DDS
Private Practice • La Jolla, California

“My last visit to the dentist was a delight! It was the most pain-free dental experience I’ve had in a dental chair.”

J. Willis

**Hard Tissue Procedures**

**Class I Cavity Prep**

- Dr. Mark Colonna
- Private Practice • Whitefish, Mont.

- Class I, II, III, IV, and V cavity preparation
- Caries removal
- Hard tissue surface roughening or etching
- Enameloplasty, excavation of pits and fissures for placement of sealants
- Osseous crown lengthening
- Cutting, shaving, contouring and resection of oral osseous tissues (bone)
- Osteoplasty and osseous recontouring (removal of bone to correct osseous defects and create physiologic osseous contours)
- Ostectomy (resection of bone to restore bony architecture, resection of bone for grafting, etc)
- Cutting bone to prepare a window access to the apex (apices) of the root(s)
- Apicoectomy – amputation of the root end
- Root end preparation for retrofill amalgam or composite
- Tooth preparation to obtain access to root canal
- Root canal preparation including enlargement
- Root canal debridement and clearing

**Additional Hard Tissue & Bone Procedures**

- Bone Grafting
- Osseous Crown Lengthening
- Osseous Recontouring
- Ostectomy
- Osteoplasty
- Osteotomy

- Root canal debridement and cleaning

- Root end preparation for retrofill amalgam or composite
- Tooth preparation to obtain access to root canal
- Root canal preparation including enlargement
- Root canal debridement and cleaning

*The Waterlase® is a remarkable tool in my practice. Time and time again, I’ve been so impressed with its clinical capabilities from cutting soft tissue, enamel - even bone. The results are excellent for the patient, and my patients have never been happier.*

David Eshom, DDS
Private Practice • La Jolla, California
“I’m not worried about the dentist anymore! The Waterlase has stripped away the fear I’ve had my whole life…”

J. Rego

“After comparing conventional techniques and new laser techniques through a surgical microscope, there is no comparison. The Waterlase, in my opinion, when used as an adjunct to traditional endodontic methods, allows me to come closer to a true sterilization in the canal, which maximizes the chance for success and survival of the tooth.”

David Browdy, DMD
Private Endodontic Practice • Lynbrook, New York
The MD Technology Platform

The Waterlase MD is loaded with patented, proprietary features that are firsts in laser dentistry. Built on BIOLASE’s exclusive new MD laser technology platform, the unit has many features requested by laser owners from around the world, and innovative new features designed to simplify laser dentistry for beginners, and maximize the experience for veteran users.

Technical Specifications

- **Wavelength:** Er,Cr: YSGG, 2780 nm
- **Power:** 0.1 to 8.0W
- **Repetition Rate:** 10 to 50 Hz
- **Pulse Energy:** 100 mJ
- **Laser Classification:** IV
- **Operating Voltage:** 115 VAC~± 10%
- **Dimensions:** 12.5 x 26 x 32 in
- **Weight:** 79lbs

- **Related Patents:** 6,637,982; 6,617,803; 6,893,975; 6,509,509; 6,371,567; 6,086,367; 5,885,082; 5,795,521; 5,761,501; 5,741,247; 5,714,005; 5,820,955; 4,818,230; 5,901,715; 5,935,048; 5,132,005; 5,123,845; 5,252,367; 5,257,935; 5,342,198

- **Additional patents pending**

Device Features:

- **Exclusive telescopic fiber management system** improves the laser fiber’s reach and intuitively follows the clinician’s movement.
- **Exclusive snap-and-go water cartridge system** for on-the-fly replenishment.
- **MDFlow™ water-level laser sensor** that alerts the operator when the Snap-in water system needs replenishment.
- **Laser Operatory Management System** with storage racks for power cables and air lines — even a storage rack for your foot pedal.
- **Hinged access door** for fast and easy access to system components.
- **Durable, stainless steel foot pedal** that mounts to the back of the Waterlase MD when not in use.
- **Heavy-duty casters** designed for velvety-smooth movement from room to room.
- **Convenient on-board storage wells** for laser tips, extra hand pieces, and other accessories
- **Unique SensaTouch™ laser control system**, with touch-screen, 16 pre-sets, self-calibration, and on-board help.
- **Exclusive HydroBeam™ contra-angle 360º, rotating handpiece with high-intensity LED illumination**, and a unique, low-profile holder for safe storage.
- **Proprietary MD laser technology platform** featuring exclusive unibody mounted optics in a durable, DSO-coated laser chamber.

*Specifications subject to change without notice.*

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Patient Marketing

BIOLASE has developed a complete collection of patient marketing materials from bumper stickers and flashing lights to coffee table brochures and posters to inform your patients about the benefits of Waterlase Dentistry.

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Your Complete Source for Dental Lasers

**Waterlase® MD**

The Waterlase® MD is the new flagship of BIOLASE’s proven line of laser products, which includes: the #1-selling Waterlase® YSGG all-tissue laser, the versatile LaserSmile™ for soft tissue procedures and laser bleaching, and the DioLase™ Plus entry-level diode cosmetic & hygiene laser.

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**LaserSmile™**

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**DioLase™ Plus**

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