



## Soft-Tissue Lasers



# Lasers have revolutionized the way doctors and dental professionals provide care.

## Why laser dentistry? Lasers cut, cauterize, coagulate and sterilize.

Dental professionals who use lasers perform more procedures, in less time, with better results than those using traditional methods. Their patients also benefit from faster treatment with less overall discomfort.\*

\*Data on file.

### Clinician Benefit:

- Incremental revenue through additional procedures
- Increased patient acceptance
- Generate patient referrals

### Production Efficiency:

- Improved access and field-of-vision
- Decreased treatment time in many cases
- Reduced impression retakes

### Patient Comfort:

- Healthier approach to tissue management as compared to a scalpel or electrosurge
- Minimal need for anesthesia
- Reduction in post-op discomfort

### Comparison Chart: Laser vs. Traditional Methods

| Benefits                                    | DenMat Diode Lasers | Scalpel | Electrocautery |
|---|---------------------|---------|----------------|
| Efficient and effective soft-tissue removal | ✓                   | ✓       | ✓              |
| Excellent hemostasis                        | ✓                   | ✗       | ✓              |
| Safe around implants                        | ✓                   | ✓       | ✗              |
| Typically requires no anesthesia            | ✓                   | ✗       | ✗              |
| Reduced post-operative pain                 | ✓                   | ✗       | ✗              |
| Reduced swelling and discomfort             | ✓                   | ✗       | ✗              |
| No periodontal pack or suturing required    | ✓                   | ✗       | ✗              |

# General Dentistry

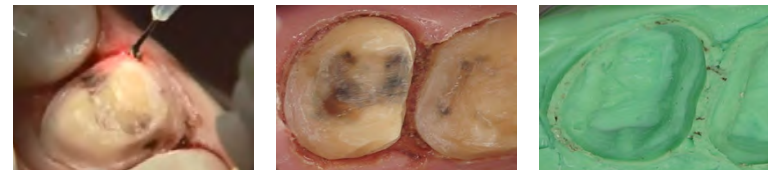
Compared to traditional methods and surgical devices such as electrocautery, a laser is gentler, more predictable, and often times will not require local anesthetic. Diode lasers cut with a very small zone of necrosis, allowing you to perform a wide array of soft tissue procedures with little to no discomfort, no fear of gingival recession, and rapid healing. Immediate hemostasis in most cases is another added benefit.



## Laser Troughing

Power: 1.0 watts | Mode: Continuous | Tip: Initiated

By using a DenMat diode laser, practitioners are able to obtain bloodless impressions with clearly exposed margins within seconds, eliminating the need to pack cord. Lasing improves visualization of prepared crown margins and aids in hemostasis so crowns and bridges are sure to fit properly every time.



## Class V Restoration

Power: 1.0 watts | Mode: Continuous | Tip: Initiated

Diode lasers provide the practitioner with clear and uncontaminated access to restore class V defects. The technique employs a non-surgical approach for ablation of diseased epithelium at the gingival margins and provides excellent hemorrhage control.



## Recontouring

Power: 1.0 watts | Mode: Continuous | Tip: Initiated

Remove excess gingival tissue easily with the use of a diode laser. Common gingival esthetic problems such as excessive gingival display or asymmetrical contours are corrected quickly and painlessly with minimal healing time.



## Frenectomy

Power: 1.2 watts | Mode: Continuous | Tip: Initiated

Bloodless and suture-free release of the maxillary or mandibular frenums can be performed with a diode laser. A frenectomy prevents the need for future grafting by stopping the migration of gingival tissue, improving access for oral hygiene, as well as correcting speech impediments.



## Gingivectomy

Power: 1.0 watts | Mode: Continuous | Tip: Initiated

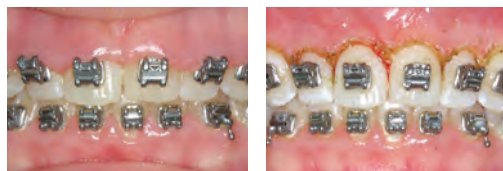
Removal of hyperplastic tissue can be done quickly and effectively without the use of sutures or scalpels. Final impressions for restorations can be completed in the same appointment, leading to predictable results with no additional patient discomfort or annoyance.



## Hyperplasia

Power: 1.2 watts | Mode: Continuous | Tip: Initiated

Precisely and effectively remove the pseudo-pockets and perform gingival contouring to improve esthetics and oral hygiene, all without local anesthesia, discomfort or bleeding by using a diode laser. This saves time and money with no need to refer out to a cosmetic dentist or oral surgeon.



## Implant Recovery

Power: 1.2 watts | Mode: Continuous | Tip: Initiated

A diode laser allows for quick, easy, and safe removal of excessive gingival tissue around the implant that might otherwise interfere with proper seating at the implant/retainer, making it more stable. Unlike other methods, there is no fear of sparking or heat transferring to the implant which could cause it to fail over time.



## Destruction of a Lesion

Power: 1.2 watts | Mode: Continuous | Tip: Initiated

A diode laser used for lesion destruction has several advantages over the scalpel. A diode laser will obtain good hemostasis, a bloodless field, and allow for faster healing while reducing the risk of infection.



# Periodontal/Hygiene Applications

Dental hygienists can incorporate soft-tissue diode laser therapy in combination with scaling and root planing in periodontal pockets.\*

A diode laser is absorbed well by melanin, hemoglobin, and other chromophores present in periodontal disease. This allows for a non-surgical approach to gain easier access to deeper calculus deposits after ablation of diseased epithelium and hemorrhage control.

Laser-assisted periodontal therapy (LAPT) can be used as an adjunct to traditional scaling and root planing. Laser energy selectively targets only darker, necrotic tissue and leaves healthy tissue alone, allowing for better healing and results. Dental hygienists can also perform other various procedures depending on state law with a non-initiated tip such as biostimulation to aid in the healing of things like apthous ulcers.



## Laser Bacterial Reduction (LBR)

Power: 0.8-1.0 watts | Mode: Pulsed | Tip: Non-Initiated

Before any routine cleaning it may be warranted to use a laser to eliminate bacteria from the periodontal pocket. By using laser bacterial reduction techniques, you can prevent cross-contamination in the mouth and help encourage healthy reattachment of the gum tissue.



## Sulcular Debridement

Power: 0.8 watts | Mode: Continuous | Tip: Non-Initiated

A diode laser can be used to selectively remove diseased epithelium without harm to the healthy tissue, allowing the healthy tissue to regenerate. In some cases pocket depths can be reduced from <6 mm to pockets of 2-3 mm depth.

## Desensitization

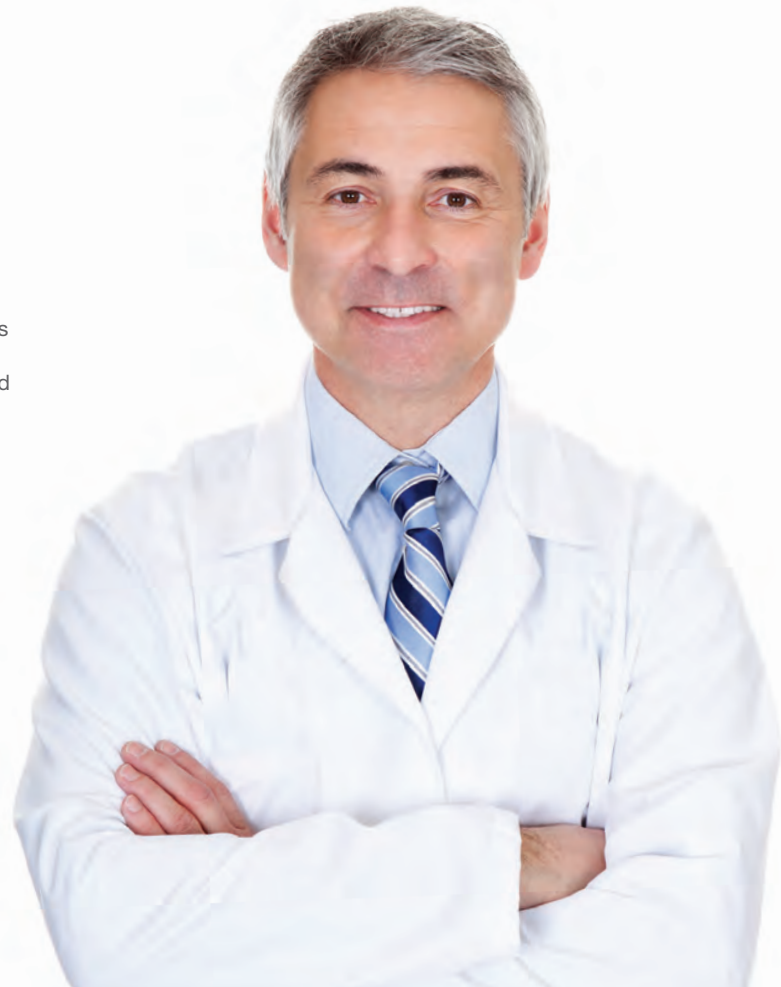
Power: 0.9 watts | Mode: Continuous | Tip: Non-Initiated

A thin layer of fluoride can be applied to the sensitive area, using a diode laser to perform biostimulation therapy. Occlude the varnish into the dentinal tubules to reduce dentinal sensitivity for up to 1 year.

\*Refer to State Dental/Hygiene Board for local laws.

# Specialty/Surgical Applications

Specialists and surgeons have unique patient needs. Some examples include short crowns which do not allow for proper bracket placement, delays in eruption of teeth, and uneven gingival margins. Unlike an Electrosurge, diode lasers are safe to use around metal brackets and implants. These techniques provide a bloodless, dry field with little to no need for local anesthesia and minimal patient discomfort.



## Cuspid Exposure

Power: 1.0 watts | Mode: Continuous | Tip: Initiated

A diode laser can easily remove tissue and provide instant access for bracket attachment without the need for local anesthesia. The procedure is fast and painless, resulting in a dry field that is ready for immediate bracket/button attachment, eliminating the need to wait months for passive eruption.



## Operculectomy

Power: 1.5 watts | Mode: Continuous | Tip: Initiated

A diode laser allows for easy removal of redundant soft tissue distal to posterior molars. The chronic recurrence of pericoronitis, significant periodontal probing depths or pseudo pockets can be easily managed with this procedure.



# NV PRO3 Microlaser

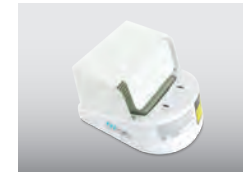
For nearly a decade, the NV Microlaser has set the bar for convenience, portability and ease of use among all dental soft-tissue diode lasers. The next-generation NV PRO3 Microlaser continues that award-winning tradition with many functional improvements. Optimized for all of your periodontal, restorative and orthodontic procedural needs, the latest evolution in cordless soft-tissue lasers enables you to deliver the benefits of laser dentistry to each patient, while increasing practice production across all departments.

- Lightest-weight wireless soft-tissue diode laser on the market, weighing less than a standard drill
- Plug-and-play system with 12 preset procedures for all periodontal, restorative and orthodontic needs
- 30 minutes of continuous operation at 1.2 watts of power, enough for more than 15 procedures before changing batteries
- 2 watts of maximum power on continuous wave or pulse mode

**NVPRO3**  
Perio · Restorative · Ortho



*Easy-to-Use Controls*



*Wireless Foot Pedal  
with Safety Shroud*



*Low-Profile Base Charger*



*Disposable Fiber Tips  
Available in 5 mm and 7 mm*



*Rechargeable  
Lithium-ion Batteries*



*Ergonomic Handpiece*

## Specifications:

- Weight: 54 grams
- Laser classification: class IV laser device
- Delivery system: optical fiber
- Wavelength: laser 808 nm  $\pm$  5 nm
- Maximum power: 2 watts  $\pm$  20%
- Audible notification: yes
- 30-minute continuous lasing time @ 1.2 watts:  
8-hour standby time
- 1-year warranty

## Kit Contents:

- NV PRO3 Microlaser unit
- Lithium-ion batteries (2)
- Wireless foot pedal
- AA batteries for the foot pedal (2)
- Base charger
- Power supply
- Disposable tips — 5 mm (5); 7 mm (5)
- Safety glasses (3)
- Initiating film
- User manual

# Laser Accessories

DenMat uses the highest quality components and fibers in its lasers and accessories. All accessories are designed to allow you to safely and effectively use your laser to its full potential.



**Laser Eyewear**  
(LR1008)

Polycarbonate eye protection that's easy to wear and hard coated against scratches, converging protection with comfort and style. (OD>10 at 808nm)



**PeriOptix® PeriVista Laser Loupe Insert**  
(F-P-A-SY)

Full-spectrum clip-on laser loupe insert designed for the PeriVista frame.



Clip-on Insert  
(OD>10 at 808nm)



**NV PRO3 Diode Laser Disposable 5 mm Tips Standard** — 5 mm  
(ZLR1012A) 25 pk.

Single-use, disposable magnetic tips are pre-scored and pre-stripped to virtually eliminate set-up time. Precisely placed magnets perfectly align and secure the pre-threaded fiber every time.



**NV PRO3 Diode Laser Disposable 7 mm Tips Periodontal** — 7 mm  
(ZLR1013A) 25 pk.

Longer length fiber tip is better suited for laser-assisted periodontal therapy.



**NV PRO3 Diode Laser Lithium-ion Battery**  
(ZLR3010)

Each fully rechargeable battery provides up to 30 minutes of continuous operation at 1.2 watts of power — enough for an average of 15 procedures in the continuous wave mode. Standby time is over 8 hours!



**Initiating Film**  
(ZLR1020)

AccuFilm II articulating papers are one of the best solutions to trigger hemoglobin absorption towards the optical fiber tip.





NV<sup>®</sup>PRO3  
Perio · Restorative · Ortho

dm  
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