DioVet™ 810 nm Laser System
The Portable and Versatile Diode Laser Photocoagulator for veterinary procedures

The DioVet laser system is used worldwide by veterinary ophthalmologists to treat glaucoma, retinal disorders and pigmented tumors. Offering an 810 nm wavelength, the DioVet system enables transscleral glaucoma and retinal procedures with greater accuracy and less postoperative pain and inflammation than cryotherapy. In addition, the system’s low weight and compact size allow easy transport to multiple clinics or remote locations.
Transscleral Glaucoma Probe

Consistent Treatment, Ease of Use
Transscleral cyclophotocoagulation (TSCP) has been shown to be a safe and highly effective method for lowering intraocular pressure.1-3

- Noninvasive procedure for both operating-room and office use
- Proprietary design for clinical precision and efficient treatment
- The foot plate provides pre-measured distance (3 mm & 4 mm) allowing precise positioning
- 0.6 mm tip assures adequate indentation of the sclera

<table>
<thead>
<tr>
<th>Spot Size</th>
<th>Fiber Length</th>
<th>Product Number</th>
<th>Placement</th>
<th>Application</th>
<th>Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.55 mm at fiber tip</td>
<td>6.0 ft (1.8 m)</td>
<td>11568</td>
<td>Side view of the probe positioned on the limbus (Fig. A)</td>
<td>Wedged tip decision of probe supports precise placement around the circumference of the limbus. (Fig. B)</td>
<td>Posterior view of ciliary processes after laser treatments applied in a 270° arc (Fig. C)</td>
</tr>
</tbody>
</table>

DioPexy™ Probe

Efficacy and Safety
The DioPexy Probe is indicated for transscleral retinal photocoagulation (TSRPC) and has been shown to be a safe and effective means of creating chorioretinal adhesion during retinal detachment surgery.4, 5

- Shape of tip automatically enables easy indentation for efficient and consistent transmission through scleral tissue
- Accuracy is assured through transillumination of the retina with the aiming beam

<table>
<thead>
<tr>
<th>Spot Size</th>
<th>Fiber Length</th>
<th>Gauge</th>
<th>Product Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.8–1.0 mm spot diameter at the retina (assuming a 0.5–1.0 mm scleral thickness)</td>
<td>10.0 ft (3.0 m)</td>
<td>13G</td>
<td>11454-1 Probe w/sterilization tray</td>
</tr>
</tbody>
</table>

TruFocus LIO Premiere™ with LED illumination

Superior Treatment Flexibility, Consistency, and Reliability

- TruFocus optical system for great working distance and diagnostic capabilities
- Independent positioning of the laser within illumination field for efficient peripheral treatments
- LED illumination offers virtually unlimited working life (up to 20,000 hours)
- Illumination adjustment mounts on either side of LIO headband
- Headband-mounted rechargeable battery eliminates the need for an electrical cable connection to the laser console
- Ergonomic system for increased comfort
- Dual wavelength system
- Large Spot (LS) LIO version available

— LS LIO can represent a more efficient treatment modality than standard laser indirect, an important consideration when treating patients such as retinopathy of prematurity infants6

<table>
<thead>
<tr>
<th>Spot Size</th>
<th>Product Number</th>
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</thead>
<tbody>
<tr>
<td>350 μm / 1400 μm</td>
<td>87300 TruFocus LIO Premiere, 532/810</td>
</tr>
<tr>
<td></td>
<td>87301 TruFocus LIO Premiere, 810</td>
</tr>
<tr>
<td></td>
<td>87302 (Large Spot) TruFocus LIO Premiere, 810 LS</td>
</tr>
</tbody>
</table>

Operating Microscope Adapter

Features and Benefits

- Offers precise targeting and the therapeutic capability of retinal photocoagulation, pigmented tumors & iris cysts
- Rugged construction makes it ideal for an operating room environment
- Compatible with a variety of operating microscopes*

* All operating microscopes must be equipped with a 175 mm objective lens which can be purchased from the microscope dealer (not from IRIDEX).

<table>
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<th>Spot Size</th>
<th>Product Number</th>
</tr>
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<tbody>
<tr>
<td>0.3, 0.5, 0.8, 1.2, and 2.0 mm</td>
<td>Call with specific microscope information</td>
</tr>
</tbody>
</table>
**DioVet™ 810 nm Laser System Specifications**

Weight: 6.4 kg (14 lb)

Dimensions: 30 cm x 30 cm x 10 cm (12 in D x 12 in D x 4 in H)

Power Requirements: 115 VAC, 50/60 Hz, 0.8 A / 230 VAC, 50/60 Hz, 0.4 A

Cooling: No external air or water cooling required

Treatment Laser: Semiconductor diode laser

Wavelength: 810 nm

### Delivery Devices and Output Power Ranges

- **Transscleral Glaucoma Probe**: 0–2000 mW
- **EndoProbe Handpiece**: 0–1500 mW
- **TruFocus™ Laser Indirect**: 0–1500 mW
- **Operating Microscope Adapter**: Spot sizes: 300, 500, 800, 1200, 2000 μm 0–1200 mW
- **Transscleral Retinopexy**: 0–1500 mW

### Exposure Duration

- 10, 20, 30, 40, 50, 75, 100, 150, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1500, 2000, 3000,4000, 5000, 6000, 7000, 8000, 9000 ms; extended durations with operating microscope adapter

### Repeat Interval

- 50, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000 ms and single pulse

### Aiming Laser

- **Wavelength**: 630–670 nm
- **Power**: User adjustable 0–<1.0 mW

### REFERENCES


Specifications are subject to change without notice. IRIDEX and EndoProbe are registered trademarks and DioVet, TruFocus and DioPexy are trademarks of IRIDEX Corporation. Products are covered by one or more of the following U.S. patents: 5,085,492; 5,088,803; 5,372,595; 5,511,085; and 5,663,979.

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