DioVet™ 810 nm Laser System

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Weight</td>
<td>6.4 kg (14 lb)</td>
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<tr>
<td>Dimensions</td>
<td>30 cm x 30 cm x 10 cm (12 in D x 12 in D x 4 in H)</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>115 VAC, 50/60 Hz, 0.8 A</td>
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<tr>
<td></td>
<td>230 VAC, 50/60 Hz, 0.4 A</td>
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<tr>
<td>Cooling</td>
<td>No external air or water cooling required</td>
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<tr>
<td>Treatment Laser</td>
<td>Semiconductor diode laser</td>
</tr>
<tr>
<td>Wavelength</td>
<td>810 nm</td>
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</table>

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:** 30, 40, 50, 70, 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:** Red semiconductor laser
- **Wavelength:** 630–670 nm
- **Power:** User adjustable 0–1.0 mW

**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.**

**Visible and Invisible Laser Radiation**

Avoid eye or skin exposure to direct or scattered radiation. CLASS 4 LASER PRODUCT (IEC 60825-1:2007).


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 (TSCPc) has been shown to be a safe and highly effective method for lowering intraocular pressure.1, 5

- 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

**Specifications**

- **Compatible Laser System:** DioVet 810 nm
- **Spot Size:** 0.55 mm at fiber tip
- **Fiber Length:** 6.0 ft (1.8 m)
- **Product Number:** 11568

**Placement**

Side view of the probe positioned on the limbus.

**Application**

Wedge tip decision of probe supports precise placement around the circumference of the limbus.

**Treatment**

Posterior view of ciliary processes after laser treatments applied in a 270° arc.

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**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

**Specifications**

- **Compatible Laser System:** DioVet 810 nm
- **Spot Size:** 0.8–1.0 mm spot diameter at the retina
  (assuming a 0.5–1.0 mm scleral thickness)
- **Fiber Length:** 10.0 ft (3.0 m)
- **Gauge:** 13G
- **Product Number:** 11454-1 Probe w/sterilization tray

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**Laser Indirect Ophthalmoscope (LIO)**

**Superior Treatment Flexibility, Consistency, and Reliability**

- Facilitates treatment of retinal photocoagulation, pigmented tumors & iris cysts
- Lightweight, ergonomic system; unmatched performance when combined with an IRIDEX laser photocoagulator
- Optimized custom illumination optics and halogen light source provide unsurpassed viewing
- Ensures consistent treatment results with exclusive TruFocus™ optical system
- Eliminates the need for laser focus adjustments and tolerates a wide range of working distances
- Permits independent positioning of the laser within the illuminated field, or simultaneous adjustment of both the laser and illuminated field
- Protects against accidental misalignment and contamination for trouble-free, reliable performance

**Specifications**

- **Compatible Laser System:** DioVet 810 nm
- **Spot Size:** 350 µm
- **Product Number:**
  - 11352 - H500
  - 13153 - H500 (Large Spot)
  - 30903 - H500 (Dual 532/810 nm)

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**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).

**Specifications**

- **Compatible Laser System:** DioVet 810 nm
- **Spot Size:** 0.3, 0.5, 0.8, 1.2, and 2.0 mm
- **Product Number:** Call with specific microscope information
Transscleral Glaucoma Probe

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Transscleral cyclophotocoagulation (TSCP) has been shown to be a safe and highly effective method for lowering intraocular pressure.1, 2
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Fiber Length: 10.0 ft (3.0 m)
Gauge: 13G
Product Number: 11454-1 Probe w/sterilization tray

Integrated optic at distal tip permits convenient laser delivery at right angles to shaft.

Titrating the retinal reaction to a light-gray endpoint by releasing the footswitch at the first sign of graying of the overlying retina will result in an endpoint similar to that desired when using transpupillary diode laser photocoagulation.

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- Product Number:
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Treatment Laser: Semiconductor diode laser
Wavelength: 810 nm

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- 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: 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
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