IRIDEX®

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 (TSCPC) 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

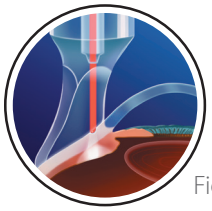


Figure A

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 (Fig. A)

Application: Wedged tip decision of probe supports precise placement around the circumference of the limbus. (Fig. B)

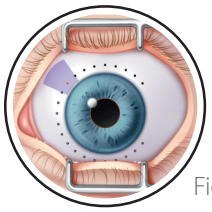


Figure B

Treatment: Posterior view of ciliary processes after laser treatments applied in a 270° arc (Fig. C)

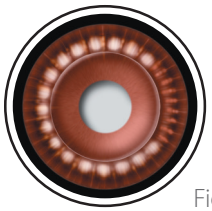


Figure C

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]

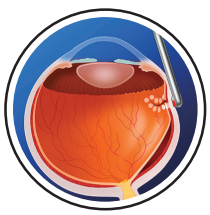
- Shape of tip automatically enables easy indentation for efficient and consistent transmission through scleral tissue
- Accuracy is assured through transillumination of the retina with the aiming beam

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



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.

COMPATIBLE LASER SYSTEM

DioVet Laser System

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 capabilities
- 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 infants[6]

Spot Size: 350 µm / 1400 µm

Product Number:
87300 TruFocus LIO Premiere, 532/810
87301 TruFocus LIO Premiere, 810
87302 (Large Spot) TruFocus LIO Premiere, 810 LS

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).

Spot Size: 0.3, 0.5, 0.8, 1.2, and 2.0 mm

Product Number: Call with specific microscope information

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:	Red semiconductor laser
Wavelength:	630–670 nm
Power:	User adjustable 0–<1.0 mW

REFERENCES: 1. Frezzotti P, Mittica V, Martone G, Motolese I, Lomurno L, Peruzzi S, Motolese E. Longterm follow-up of diode laser transscleral cyclophotocoagulation in the treatment of refractory glaucoma. *Acta Ophthalmol* 2009. **2.** Schlote T, Derse M, Rassmann K, Nicaeus T, Dietz K, Thiel HJ. Efficacy and safety of contact transscleral diode laser cyclophotocoagulation for advanced glaucoma. *J Glaucoma* 2001;10(4):294-301. **3.** Spencer AF, Vernon SA. "Cyclodiode": Results of a standard protocol. *Br J Ophthalmol* 1999;83(3):311-6. **4.** Haller JA, Blair N, de Juan E Jr, De Bustros S, Goldberg MF, Muldoon T, Packo K, Resnick K, Rosen R, Shapiro M, Smiddy W, Walsh J. Transscleral diode laser retinopexy in retinal detachment surgery: Results of a multicenter trial. *Retina* 1998;18(5):399-404. **5.** Kapran Z, Uyar OM, Bilgin BA, Kaya V, Cilsim S, Eltutar K. Diode laser transscleral retinopexy in rhegmatogenous retinal detachment surgery. *Eur J Ophthalmol* 2001;11(4):356-60. **6.** Shah P, Narendran V, Kalpana N. Large spot transpupillary thermotherapy: A quicker laser for treatment of high risk prethreshold retinopathy of prematurity - a randomized study. *Indian J Ophthalmol* 2011;59(2):155-8.

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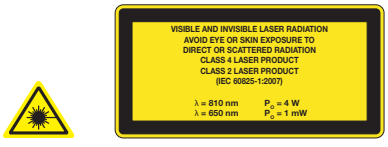

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