



# IRIDEX

## DioVet™ 810 nm Laser System

### The Portable and Versatile Diode Laser Photocoagulator

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.

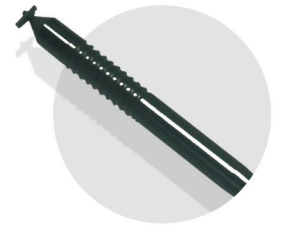


# Transscleral Glaucoma Probe

## Consistent Treatment, Ease of Use

Transscleral cyclophotocoagulation (TSCPC) has been shown to be a safe and highly effective method for lowering intraocular pressure.<sup>1-3</sup>

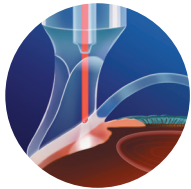
- Noninvasive procedure for both operating-room and office use
- Proprietary design for clinical precision and efficient treatment
- The foot plate provides pre-measured distance (3 mm & 4 mm) allowing precise positioning
- 0.6 mm tip assures adequate indentation of the sclera



Transscleral Glaucoma Probe

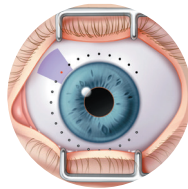
## Specifications

<b>Compatible Laser System:</b>	DioVet™ 810 nm
<b>Spot Size:</b>	0.55 mm at fiber tip
<b>Fiber Length:</b>	6.0 ft (1.8 m)
<b>Product Number:</b>	11568



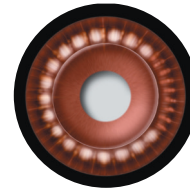
### Placement

Side view of the probe positioned on the limbus.



### Application

Wedged tip design 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.

# 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.<sup>4, 5</sup>

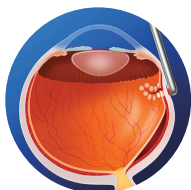
- Shape of tip automatically enables easy indentation for efficient and consistent transmission through scleral tissue
- Accuracy is assured through transillumination of the retina with the aiming beam



DioPexy™ Probe

## Specifications

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



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



Titration of 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.

# 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



Laser Indirect Ophthalmoscope

## Specifications

<b>Compatible Laser System:</b>	DioVet 810 nm
<b>Spot Size:</b>	350 µm
<b>Product Number:</b>	13152 - H500 13153 - H500 (Large Spot) 30903 - H500 (Dual 532/810 nm)

# 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

<b>Compatible Laser System:</b>	DioVet 810 nm
<b>Spot Size:</b>	0.3, 0.5, 0.8, 1.2, and 2.0 mm
<b>Product Number:</b>	Call with specific microscope information



Operating Microscope Adapter

# DioVet™ 810 nm Laser System

## Specifications

<b>Weight:</b>	6.4 kg (14 lb)
<b>Dimensions:</b>	30 cm x 30 cm x 10 cm (12 in D x 12 in D x 4 in H)
<b>Power Requirements:</b>	115 VAC, 50/60 Hz, 0.8 A 230 VAC, 50/60 Hz, 0.4 A
<b>Cooling:</b>	No external air or water cooling required
<b>Treatment Laser:</b>	Semiconductor diode laser
<b>Wavelength:</b>	810 nm
<b>Delivery Devices and Output Power Ranges:</b>	
<b>Transscleral Glaucoma Probe:</b>	0–2000 mW
<b>EndoProbe Handpiece:</b>	0–1500 mW
<b>TruFocus™ Laser Indirect:</b>	0–1500 mW
<b>Operating Microscope Adapter:</b>	Spot sizes: 300, 500, 800, 1200, 2000 µm 0–1200 mW
<b>Transscleral Retinopexy:</b>	0–1500 mW
<b>Exposure Duration:</b>	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
<b>Repeat Interval:</b>	50, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000 ms and single pulse
<b>Aiming laser:</b>	Red semiconductor laser
<b>Wavelength:</b>	630–670 nm
<b>Power:</b>	User adjustable 0–<1.0 mW

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.

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