

IRIDEX 810nm Infrared

Solid-State Laser Family

Innovative Combination of Power and Versatility

- Multifunctionality to perform retinal photocoagulation and glaucoma procedures
- Three different laser energy modalities: CW-Pulse[™], Long-Pulse[™] and MicroPulse[®]*

Optional Accessories

- FiberCheck™ Slit Lamp Adapter**
 - Unique slit lamp adapter verifies the laser is operating to specification before treatment
- Remote Control
 - Compact design for convenient access to the laser adjustment
- Wireless Footswitch**
 - No cord, no clutter, no limitations
 - Available with power-adjust to control laser actuation and power settings



IQ 810™



OcuLight® SL



OcuLight® SLx

810 nm Multifunctionality

Multiple Therapeutic Indications

The IRIDEX 810 nm ophthalmic laser systems were designed to offer a vast variety of treatment modalities for a wide selection of indications. The IQ 810™, OcuLight® SL, and OcuLight SLx are indicated for retinal photocoagulation, laser trabeculoplasty, transscleral cyclophotocoagulation, transscleral retinal photocoagulation, iridotomy, and other diode laser treatments.

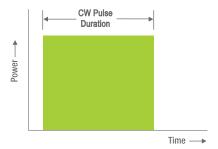
Indications for Use

| Indication | Procedure | Delivery Device | |
|--|---|--|--|
| Glaucoma - Primary Open Angle - Closed Angle - Refractory Glaucoma | Laser Trabeculoplasty; Iridotomy; Transscleral Cyclophotocoagulation (TSCPC) Slit Lamp Adapters G-Probe™ | | |
| Diabetic Retinopathy - Nonproliferative Retinopathy - Macular Edema - Proliferative Retinopathy | Panretinal Photocoagulation (PRP); Focal and Grid Laser Treatments | SLA; EndoProbe®; Laser Indirect Ophthalmoscope (LIO) | |
| Retinal Tears, Detachments, and Holes | Transscleral Retinal Photocoagulation (TSRPC); Focal and Grid Laser Treatments | SLA; DioPexy™; LIO; EndoProbe | |
| Lattice Degeneration | PRP; Focal and Grid Laser Treatments | EndoProbe; SLA; LIO | |
| Age-Related Macular Degeneration (AMD) with Choroidal Neovascularization (CNV) | Focal and Grid Laser Treatments | SLA; LIO | |
| Intra-Ocular Tumors - Choroidal Hemangioma - Choroidal Melanoma - Retinoblastoma | Focal and Grid Laser Treatments | SLA; LIO; Operating Microscope Adapter (OMA) | |
| Retinopathy of Prematurity | PRP; TSRPC; Focal and Grid Laser Treatments | DioPexy; LIO; LIO-LS | |
| Sub-Retinal (choroidal) Neovascularization | Focal and Grid Laser Treatments | SLA; LIO | |
| Central and Branch Retinal Vein Occlusion | PRP; Focal and Grid Laser Treatments | EndoProbe; SLA; LIO | |

Multiple Modes for Multiple Applications

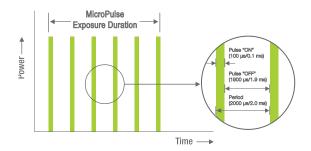
CW-Pulse™ (Continuous-Wave) Mode

CW lasers deliver a steady stream of laser energy, even with the shortest exposure duration. This results in a significant thermal rise and consequent coagulation used clinically for many applications.



MicroPulse® Mode*

With MicroPulse technology, the steady CW emission is "chopped" into a train of shorter laser pulses, whose "duration" ("ON" time) and "interval" ("OFF" time) are adjustable by the surgeon. A shorter MicroPulse "duration" limits the time for the laser-induced heat to spread to adjacent tissues, thus providing more precise confinement of energy delivered. A longer "interval" between each MicroPulse provides additional time for tissue to cool. The "ON" time during the total period of "ON" + "OFF" time is referred to as a Duty Cycle. Duty cycles are represented as a percentage, and are adjustable from .4% to 50%, or presets of 5%, 10%, and 15%.



MicroPulse Technology

- MicroPulse laser delivery confines heat to target area
- Limits thermal rise in target tissue below the threshold of conventional photocoagulation
- Broad clinical utility



IRIDEX® Infrared Laser Family

Specifications

| | OcuLight® SL | OcuLight SLx | IQ 810™ |
|----------------------------------|---|---|---|
| Wavelength: | 810 nm | | |
| Weight: | 6.3 kg | (14.0 lb) | 5.0 kg (11.0 lb) |
| Dimensions: | 30 cm x 30 (12 in W x 12 | | 30.5 cm x 30.5 cm x 17.8 cm (12 in W x 12 in D x 7 in H) |
| Connector Type: | Resistor | | |
| Electrical: | 100-240 VAC, 50/60 Hz | | |
| Cooling: | Air cooled | | |
| Exposure Duration: | CW-Pulse™: 10–9000 ms in 29 increments LongPulse™: 10 s- 30 min in 26 increments | | |
| Exposure Interval: | CW-Pulse: 50-1000 ms in 11 increments and Single Pulse | | |
| MicroPulse® Duration: | N/A | MicroPulse: 0.1-1.0 ms | MicroPulse: 0.025-1.0 ms in 22 increments |
| MicroPulse Interval: | N/A | MicroPulse: 1.0-10.0 ms | MicroPulse: 1.0-9.5 ms in 26 increments |
| Aiming Laser: | Diode laser, 650 nm nominal | | |
| Delivery Device Power Output: | SLA: 0-1300 mW LIO: 0-1500 mW LIO-LS*: 0-1500 mW EndoProbe®: 0-1500 mW G-Probe™: 0-2000 mW DioPexy™: 0-1800 mW OMA**: 0-1300 mW | SLA: 0-2000 mW LIO: 0-2000 mW LIO-LS: 0-2000 mW EndoProbe: 0-2000 mW G-Probe: 0-3000 mW DioPexy: 0-2000 mW OMA: 0-2000 mW | SLA: 0-2000 mW LIO: 0-2000 mW LIO-LS: 0-2000 mW EndoProbe: 0-2000 mW G-Probe: 0-3000 mW DioPexy: 0-2000 mW OMA: 0-2000 mW |

^{*}Factory installed option

Specifications are subject to change without notice. IRIDEX, the IRIDEX logo, MicroPulse, OcuLight and EndoProbe are registered trademarks and IQ 810, FiberCheck, G-Probe, DioPexy, LongPulse, and CW-Pulse are trademarks of IRIDEX Corporation. All other trademarks are the property of their respective owners.

Products are covered by one or more of the following U.S. patents: 5,511,085; 5,982,789; 6,327,291; 6,640,391; 6,733,490; 7,766,904; 7,771,417; 7,909,816; 5,997,498; 6,073,759; 6,092,898; 6,217,594; 6,494,314; 6,585,679; 6,726,666; 6,800,076; 6,866,142; 7,537,593; 8,177,777; 783783; 69530497.6; KR 348012; 0904615; 69706541.3; CA 2331837; AU 759193; JP 4149670; EP 1009684; CA 2286002; JP 449444; JP 4570696; JP 4819754; JP 5123973; JP 5133069. Other U.S. and international patents pending.



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