



# IQ 810™ Laser System

The Next-Generation Infrared Solution with MicroPulse™ Technology

## Innovative Combination of Power and Versatility

- Premiere 810 nm infrared laser with MicroPulse technology
- Multifunctionality to perform retinal photocoagulation and glaucoma procedures
- Three different laser energy modalities: CW-Pulse™, Long-Pulse™ and MicroPulse™

## Ergonomic and Easy to Use

- **SmartWare™ Interactive Software**
  - Program and customize user presets
  - Intuitive setup with user prompts and messages
  - Responsive on screen navigation
- **Backlit Graphical Interface**
- **Lightweight and Portable for Easy Transport**

## Optional Accessories

- **FiberCheck™ Slit Lamp Adapter**
  - Unique slit lamp adapter verifies the laser is operating within specification before treatment
- **Remote Control**
  - Compact design for convenient access of the laser
- **Wireless Power-Adjust Footswitch**
  - No cord, no clutter, no limitations
  - Allows physician control over power settings and laser actuation



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Elegantly simple solutions™

# IQ 810™ Multifunctionality

The IRIDEX IQ 810 ophthalmic laser system was designed to offer a vast variety of treatment modalities for a wide selection of indications.

## Multiple Therapeutic Indications

The IQ 810 is indicated for transpupillary, transscleral retinopathy, retinal photocoagulation, laser trabeculoplasty, iridotomy and transscleral cyclophotocoagulation.

### Indications for Use

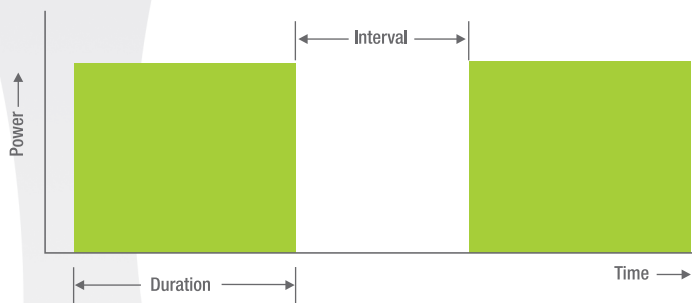
Indication	Procedure	Delivery Device
Glaucoma <ul style="list-style-type: none"> <li>– Primary Open Angle</li> <li>– Closed Angle</li> <li>– Refractory Glaucoma</li> </ul>	Laser Trabeculoplasty; Iridotomy; Transscleral Cyclophotocoagulation	Slit Lamp Adapters (SLA); G-Probe™
Diabetic Retinopathy <ul style="list-style-type: none"> <li>– Nonproliferative Retinopathy</li> <li>– Macular Edema</li> <li>– Proliferative Retinopathy</li> </ul>	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)	Focal and Grid Laser Treatments	SLA; LIO
Intra-Ocular Tumors <ul style="list-style-type: none"> <li>– Choroidal Hemangioma</li> <li>– Choroidal Melanoma</li> <li>– Retinoblastoma</li> </ul>	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

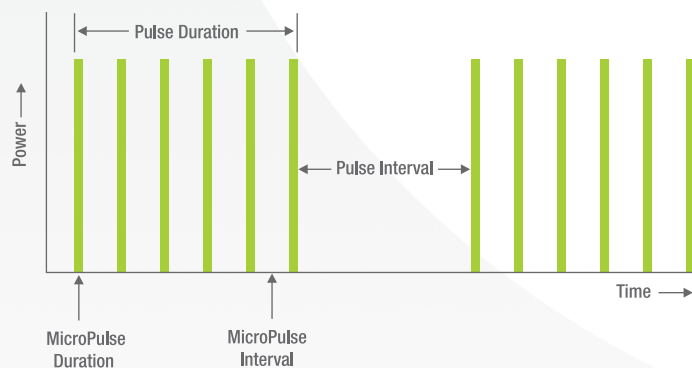
## CW-Pulse™ (Continuous-Wave) Mode

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 MicroPulse

With MicroPulse, 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.



## 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

# IQ 810™ Laser System

## Specifications

<b>Wavelength:</b>	810 nm Infrared
<b>Weight:</b>	11.0 lb (5.0 kg)
<b>Dimensions:</b>	7" H x 12" W x 12" D (17.8 cm x 30.5 cm x 30.5 cm)
<b>Connector Type:</b>	Resistor
<b>Electrical:</b>	100–240 VAC, 50/60 Hz
<b>Exposure Duration:</b>	CW-Pulse™: 10–9000 ms LongPulse™: 10 s–30 min
<b>Exposure Interval:</b>	50–1000 ms
<b>MicroPulse™ Duration:</b>	MicroPulse: 0.025–1.000 ms
<b>MicroPulse Interval:</b>	MicroPulse: 1.00–9.50 ms
<b>Aiming Laser:</b>	Diode laser, 655 nm nominal
<b>Delivery Device Power Output:</b>	Portable 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



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Products are covered by one or more of the following U.S. patents: 5,372,595; 5,511,085; 5,521,932; 5,663,979; 5,982,789; 5,979,554; 6,141,143; 6,144,484; 6,222,869; 6,327,291; 6,377,599; 6,540,391; 6,733,490; 6,800,076; 7,537,593; 7,766,904; 7,771,417; and 7,909,816.



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