IQ 532™ Laser System
Green 532 nm Laser with MicroPulse® Technology*

**The Advantages of Innovation**
- High power with 2500 mW of deliverable laser power
- High speed with pulse durations from 10 to 3000 ms
- DualSense™ provides quick and simple selection of multiple delivery devices for RFID and SMA
- Intuitive graphical touch screen interface with high contrast color display
- Voice confirmation to aid surgical techniques

**Ergonomic and Easy to Use**
- Dual port for simultaneous connectivity of laser delivery devices
- Convenient 3-knob control console offers dedicated interface to minimize steps in making adjustments
- 10 programmable user presets

**Optional Accessories**
- **Full-Featured Remote Control**
  - Compact design for easy placement or use in sterile field
  - View displays and adjust parameters from 2 vantage points for increased convenience and efficiency
- **Wireless Footswitch**
  - No cord, no clutter, no limitations
  - Available with power-adjust to control laser actuation and power settings

*MicroPulse is an optional module available at time of purchase only.*
Standard Photocoagulation & MicroPulse® Therapy in One Laser

MicroPulse Applications
- Fovea-Friendly™ MicroPulse Laser Therapy for retinal disorders
- Repeatable MicroPulse Laser Trabeculoplasty (MLT) for glaucoma therapy

What is MicroPulse Technology?

**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 technology finely controls thermal elevation by “chopping” a continuous-wave (CW) beam into an envelope of repetitive short pulses allowing tissue to cool between pulses and reduce thermal buildup.


*MicroPulse is an optional module.*
Versatility to Treat Retina & Glaucoma

“When I opened my practice, I purchased the IQ 532™. Besides my slit lamp, it’s been the most useful piece of equipment for my patients and my business. Its technical advantage of delivering both standard and MicroPulse laser therapy protocols gives me multiple options to treat both glaucoma and retinal disorders.”

– David Dickman, MD, Universal Eye Center, Rolesville, NC

Safe Alternative to Treat Glaucoma

“The IQ 532, with MicroPulse, has given me a great new option for glaucoma treatment. MicroPulse Laser Trabeculoplasty [MLT] has been easy to adopt, and allows me to provide a quiet, safe and very well-tolerated approach to reduce IOP or to reduce the need for IOP lowering medications. The success that I have experienced using MLT brings comfort to my patients and to me in knowing that there will be no observable damage from the therapy.”

– Nathan Radcliffe, MD, New York Eye Surgery Center, New York, NY

### MLT vs. SLT

<table>
<thead>
<tr>
<th>MicroPulse Laser Trabeculoplasty (MLT)</th>
<th>Selective Laser Trabeculoplasty (SLT)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wavelength</strong></td>
<td>532 nm and 577 nm</td>
</tr>
<tr>
<td><strong>Mechanism</strong></td>
<td>Thermally affects - not destroys - pigmented trabecular meshwork cells without thermal or collateral damage</td>
</tr>
<tr>
<td><strong>Learning Curve</strong></td>
<td>Easy</td>
</tr>
<tr>
<td><strong>Repeatability</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Visible signs of treatment intra-or post-operative</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Inflammation</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Spot Size</strong></td>
<td>300 μm (smaller spot to access narrow angles)</td>
</tr>
<tr>
<td><strong>Complications</strong></td>
<td>Minimal to none</td>
</tr>
<tr>
<td><strong>Functionality of laser system</strong></td>
<td>Continuous-wave and MicroPulse treatment for glaucoma and retinal disorders</td>
</tr>
<tr>
<td><strong>Parameter Control</strong></td>
<td>Power, ON/OFF time, number and rep rate of pulses</td>
</tr>
</tbody>
</table>

IQ 532™ Laser System

Specifications

Wavelength:
532 nm Green

Weight:
9.0 kg (19.2 lb)

Dimensions:
30.5 cm x 35.6 cm x 21.4 cm
(12 in W x 14 in D x 8.5 H)

Connector Type:
RFID | Resistor

Electrical:
100–240 VAC, 50/60 Hz

Cooling:
Air/TEC cooled

Exposure Duration:
CW-Pulse™: 10 ms – 3000 ms or CW to 60 seconds

Exposure Interval:
CW-Pulse: 10 ms – 3000 ms or single pulse

MicroPulse® Duration:
MicroPulse: 0.05–1.00 ms

MicroPulse Interval:
MicroPulse: 1.00–10.00 ms

Aiming Laser:
Diode laser, 635 nm nominal

Delivery Device
TxCell™: 0–2000 mW

Power Output:
SLA: 0–2000 mW
LIO: 0–2000 mW
EndoProbe®: 0–2000 mW
OtoProbe™: 0–2500 mW

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Products are covered by one or more of the following U.S. patents: 5,511,085; 5,982,789; 6,327,291; 6,540,391; 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; 7,537,590; 8,177,777; 783783; 89530497.6; KR 948012; 9904615; 69706541.3; CA 2331837; AU 759193; JP 4149670; EP 1009684; CA 2296002; JP 449444; JP 4570696; JP 4819754; JP 5123973; JP 5133069.

Other U.S. and international patents pending.

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EC REFER

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