



IRIDEX

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.



 **MicroPulse®**
First, do no harm

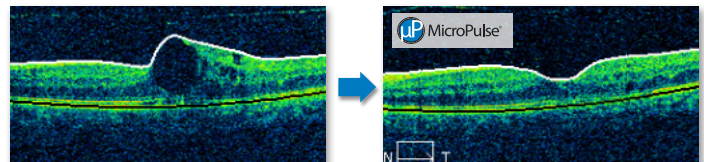
Standard Photocoagulation & MicroPulse® Therapy in One Laser

MicroPulse Applications

- Fovea-Friendly™ MicroPulse Laser Therapy for retinal disorders¹

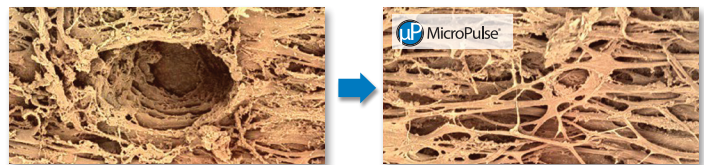


- Repeatable MicroPulse Laser Trabeculoplasty (MLT) for glaucoma therapy



VA 20/50 | CRT 434 μ m

3 Mos Post-Op | VA 20/30 | CRT 314 μ m



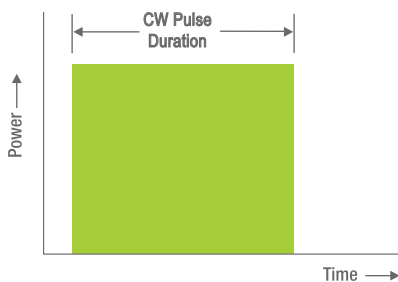
Trabecular meshwork after ALT

Trabecular meshwork after MLT

What is MicroPulse Technology?

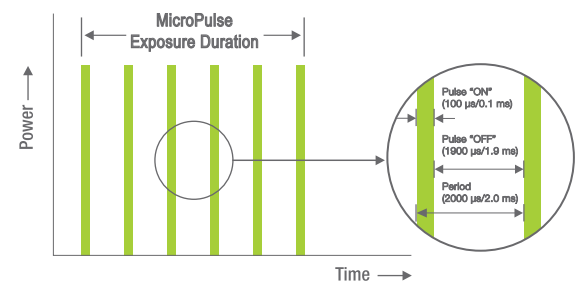
CW-Pulse™ (Continuous-Wave) Mode

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.



1. Bhagat N, Zarbin M, Mansour S, Chong V, and Cardillo JA. Fovea-friendly MicroPulse Laser. *Supplement to Retina Today*, May/June 2012
 *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

	MicroPulse Laser Trabeculoplasty (MLT)	Selective Laser Trabeculoplasty (SLT)
Wavelength	532 nm and 577 nm	532 nm
Mechanism	Thermally affects - not destroys - pigmented trabecular meshwork cells without thermal or collateral damage	Selective destruction of pigmented trabecular meshwork cells without thermal or collateral damage
Learning Curve	Easy	Easy
Repeatable	Yes	Yes
Visible signs of treatment intra-or post-operative	No	Yes
Inflammation	No	Yes
Spot Size	300 µm (smaller spot to access narrow angles)	400 µm
Complications	Minimal to none	Post-op IOP spikes are possible
Functionality of laser system	Continuous-wave and MicroPulse treatment for glaucoma and retinal disorders	SLT
Parameter Control	Power, ON/OFF time, number and rep rate of pulses	Pulse energy

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



Specifications are subject to change without notice. EndoProbe, IRIDEX, the IRIDEX logo, and MicroPulse are registered trademarks and TxCell, IQ 532, DualSense, OtoProbe, 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; 6,540,391; 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; 7,537,593; 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.

EC REP Emergo Europe
Molenstraat 15, 2513 BH, The Hague, The Netherlands, Tel.: (31) (0) 70 345-8570, Fax: (31) (0) 70 346-7299

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