



# TxCell® Scanning Laser Delivery System

High versatility for  
higher volume



# Versatile Platform for Growing Practices

The TxCell Scanning Slit Lamp Adapter coupled to the Iridex IQ 532® or IQ 577® laser adds multiple treatment modalities for glaucoma and retinal disorders.

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## In One Platform, Growing Practices Can Offer:



Multi-spot pattern scanning for efficient panretinal photocoagulation



Standard photocoagulation with optimized wavelengths



MicroPulse® Laser Therapy\*

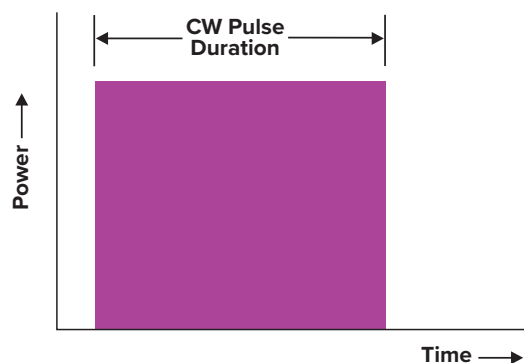
- Fovea-Friendly MicroPulse Laser Therapy for retinal disorders<sup>1</sup>
- Repeatable MicroPulse Laser Trabeculoplasty (MLT) for glaucoma therapy

\*Optional module at the time of purchase.

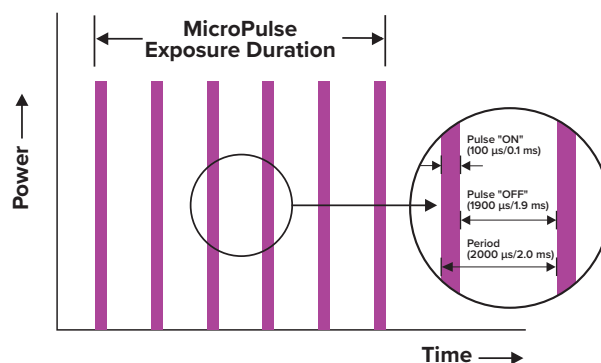
# MicroPulse® Laser Therapy

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.

## CW Mode



## MicroPulse Mode

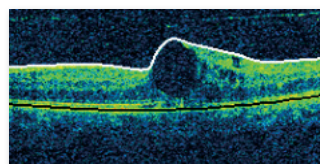


## MicroPulse Laser Application

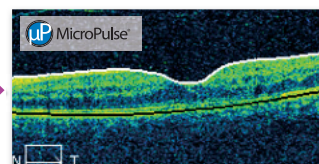
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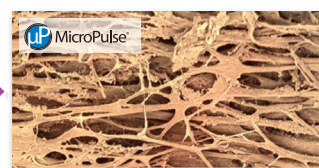
VA 20/50 | CRT 434  $\mu$ m



3 Mos Post-Op | VA 20/30 | CRT 314  $\mu$ m



Trabecular meshwork after ALT



Trabecular meshwork after MLT

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

# A versatile and compatible solution



Haag-Streit® Style



Zeiss® Style

## Intelligent and Intuitive Design

### TxCell with IQ 532 Laser or IQ 577 Laser

- Single and multi-spot pattern delivery using standard continuous-wave or MicroPulse treatment modes
- Multi-spot patterns offer confluent (zero spacing) ideal for MicroPulse protocols
- Rotatable patterns to designate treatment starting point
- Short pulse durations for efficient laser delivery
- Automated FiberCheck to confirm the integrity of the fiber
- Dual port for efficient setup of alternate delivery devices
- Intuitive graphical touch-screen interface for ease of use
- Programmable user preset menu (up to 10 presets)
- Full-featured remote control and wireless footswitch\*

## Predictability of Laser Delivery

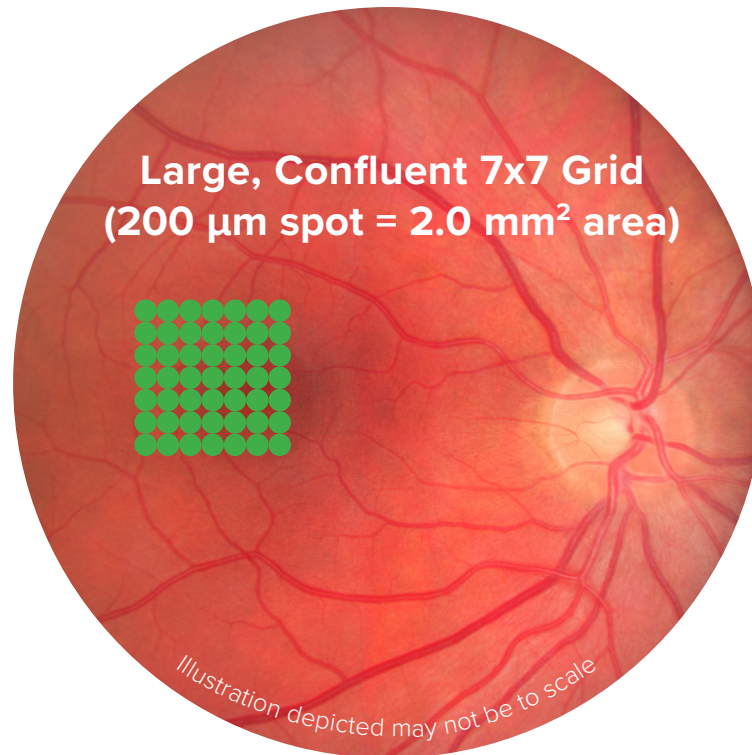
Target cell technology enables physicians to visualize the perimeter of the targeted area. Optimal for subvisible MicroPulse protocols.

## Pattern Selection Types

| Visible Target Cells                             | Delivered Laser Spots                                                                 |
|--------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Grid</b><br>(Adjustable grid from 2x2 to 7x7) |  |
| <b>Circle</b><br>(Adjustable radius)             |  |
| <b>Triple Arc</b><br>(Adjustable radius & arc)   |  |

\*Optional

# Confluent, high-density applications



## Confluent, High-Density Laser Patterns for MicroPulse Protocols

MicroPulse laser therapy has shown clinical success using confluent spacing.<sup>2,3</sup>

TxCell offers confluent, high-density applications in a wide selection of patterns.

## Automated FiberCheck

The automated FiberCheck confirms the integrity of the fiber. It is important to ensure the fiber is functioning properly when delivering MicroPulse laser because there is no visible endpoint during or any time post treatment.

2. Luttrull JK, Sramek C, Palanker D, Spink CJ, Musch DC. Retina 2012;32(2):375-86

3. Lavinsky D, Cardillo JA, Melo LA, Jr., Dare A, Farah ME, Belfort R Jr. Invest Ophthalmol Vis Sci 2011; 52 (7): 4314-23

# Specifications

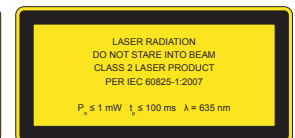
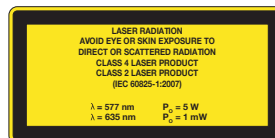
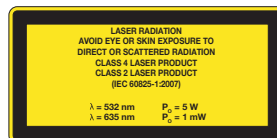
| TxCell® Scanning Laser Delivery System           |                                                                                                              |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Compatible Lasers                                | IQ 532® (532 nm, Green) or IQ 577® (577 nm, Yellow)                                                          |
| Laser Energy Source                              | Frequency-doubled solid-state and direct diode                                                               |
| Maximum Power                                    | 2000 mW                                                                                                      |
| Exposure Duration                                | CW-Pulse: 10–3000 ms                                                                                         |
| Exposure Interval                                | CW-Pulse: 10–3000 ms                                                                                         |
| MicroPulse® Duration                             | MicroPulse: 0.05–1.00 ms                                                                                     |
| MicroPulse Interval                              | MicroPulse: 1.00–10.00 ms                                                                                    |
| MicroPulse Duty Cycle                            | Preset selections of 5%, 10%, and 15% (continuously adjustable from 0.4% - 50%)                              |
| Aiming Beam                                      | Diode laser, 635 nm nominal                                                                                  |
| Patterns                                         | Grid (2x2 - 7x7), Circle, Triple Arc                                                                         |
| Pattern Spacing                                  | Confluent (zero), 1-, 2-, 3-spot spacing in 0.25 diameter increments                                         |
| User Interface                                   | Touch-screen & knobs                                                                                         |
| Compatible Slit Lamps                            | Iridex SL 980, Iridex 9800, Iridex SL 990, Iridex SL 9900, Zeiss 30SL, Haag-Streit BM/BQ 900 and equivalents |
| Spot Sizes                                       | Single spot: 50 µm, 100 µm, 200 µm, 300 µm, 500 µm<br>Multi-spot: 100 µm, 200 µm, 300 µm, 500 µm             |
| Electrical                                       | 100 – 240 VAC, 50/60 Hz                                                                                      |
| TxCell Scanning Laser Delivery System Components | TxCell Scanning Slit Lamp Adapter (SSLA)<br>TxCell Control Box<br>IQ 532 or IQ 577 laser                     |



CE 2797

EC REP

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