

2.5Hz  
Repetition Rate

# SOLUTis™

Your Glaucoma Laser Therapy



Adaptable SLT laser

# SOLuTis™

Quantel Medical's cutting edge laser technology has brought constant and multiple innovations to glaucoma physicians worldwide since 1993.

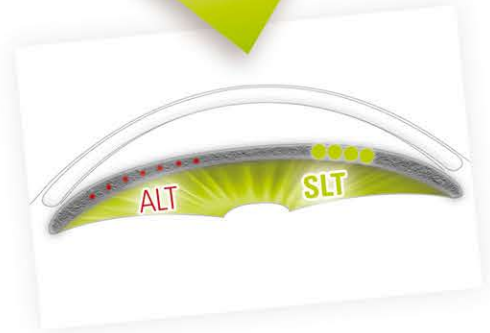
SoLuTis is a Q-switched 532nm SLT laser that adapts to Haag Streit type slit lamps. It offers an excellent alternative to eye drops, surgery and classic laser procedures, improving glaucoma treatment for both patient and physician.

## SoLuTis: enter the SLT laser therapy era

### ● Photoregeneration?

In contrast to classic laser procedures (ALT, MLT, PLT, ...) the SLT procedure is characterized by its absence of thermal effects. Advanced "photoregeneration" therapy eliminates the destructive aspects of ALT.

SLT laser energy is selectively absorbed by pigmented cells. Its specific treatment settings limit the heat-related damage and preserve the trabecular meshwork.



### ● Unique treatment settings

- Extremely short duration: 4 ns  $\Leftrightarrow$  0.000000004 sec!
- Large Spot Size: 400 $\mu$ m
- Ideal 532nm wavelength to target melanin cells

|                               | SLT             | ALT          |
|-------------------------------|-----------------|--------------|
| Wavelength                    | 532 nm          |              |
| Spot size                     | 400 $\mu$ m     | 50 $\mu$ m   |
| Exposure time                 | 0.000000004 sec | 0.1 sec      |
| Energy (mJ)                   | 0.8 - 1.5 mJ    | 400 - 600 mW |
| Fluence (mJ/mm <sup>2</sup> ) | 6               | 40.000       |

### ● A safe, and clinically proven treatment

SLT is a proven therapy supported by more than 10 years of clinical data:

- An efficient non-invasive glaucoma laser treatment  
Used more and more as first-line therapy  
As effective as the "classic laser treatments" but repeatable over time
- Alternative / complement to medical therapies
- Adjunct to surgery and classic laser therapy



### ● An easy and fast treatment procedure

- An easy office procedure
- A 5 minute painless treatment
- Improved follow up for your patients (patient compliance)
- A reimbursed procedure by most insurance policies



## SoLuTis: Technology

### ● SLT Technology: a cold laser effect

As opposed to the trabeculoplasty lasers based on photocoagulators, the SoLuTis laser cavity is based on Q-Switched frequency doubled nd:YAG technology.

This technology is the only choice which provides unique SLT procedure settings:

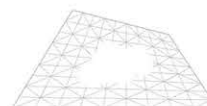
- Wavelength: 532nm
- Pulse duration: 4ns (0.000000004sec)
- Spot Size: 400µm

SoLuTis uses a large spot size and an extremely short pulse duration that are fixed.

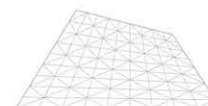
These fixed parameters avoid any kind of visible or subvisible thermal effect.

The energy absorption is limited to the melanin cells and avoids any thermal spread to the adjacent tissue.

This prevents thermal damage that occurs with classic photocoagulators (ALT), pattern scan lasers (PLT) or micropulse lasers (MLT)...



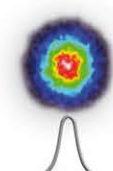
Classic Effect



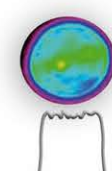
SLT Effect

### ● Top Hat laser beam

SoLuTis premium optical components deliver even energy distribution across the diameter of spot which is essential to avoid damaging the trabecular meshwork.



«Gaussian» energy distribution Standard laser



«Top Hat» energy distribution SoLuTis

## SoLuTis: Ease of use / Adaptable design

SoLuTis laser adapts to:

- Quantel Medical Slit Lamp / Table (complete configuration)
- Haag Streit type slit lamps
- Optimis 2 YAG laser (SLT + YAG combo)



## SoLuTis: Transportable

SoLuTis is delivered in a carrying case





# SOLUTis™

## TECHNICAL SPECIFICATIONS



### SOLUTIS SPECIFICATIONS

|                          |                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------|
| Laser source:            | Q-switched, frequency doubled Nd:YAG                                                              |
| Wavelength:              | green 532 nm                                                                                      |
| Energy:                  | 0.2 to 2 mJ                                                                                       |
| Pulse duration:          | 4 ns                                                                                              |
| Repetition rate:         | up to 2.5Hz                                                                                       |
| Pulse mode:              | single pulse                                                                                      |
| Aiming Beam:             | 650 nm                                                                                            |
| Magnification:           | according to type of slit lamp                                                                    |
| Cooling:                 | air cooled                                                                                        |
| Size (H x W x D):        | laser head: 35 x 15 x 7 cm / 5.4' x 7' x 11.4'<br>power supply: 31 x 34 x 8 cm / 17' x 12' x 8.5' |
| Weight:                  | laser adapter: 1.9 kg / 4.19 lbs<br>power supply: 5.7 kg / 12.57 lbs                              |
| Power requirements:      | 100 - 240 VAC, 50/60 Hz                                                                           |
| Slit lamp compatibility: | Quantel Medical slit lamp<br>Haag Streit 900 BM & BQ                                              |

### AVAILABLE MODELS

- SoLuTis (including laser adapter and power supply)
- SoLuTis complete configuration (including laser adapter, power supply, table and slit lamp)
- SoLuTis for Optimis 2 (SLT / YAG combo)

*Specifications are subject to change without notice.*

[www.quantel-medical.com](http://www.quantel-medical.com)

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