



Opto**SLT** nano

Preserve vision in record time

OptoSLT nano –THE FIRST 1ns SLT DEVICE ON THE MARKET

Selective Laser Trabeculoplasty (SLT) is an advanced, non-invasive, primary or secondary treatment for raised intraocular pressure (IOP) in glaucoma. It uses short laser pulses of a specific wavelength to selectively target pigmented trabecular meshwork cells without causing widespread thermal damage. Standard SLT utilises a low-energy laser with a short pulse duration of 3-5 ns. This low-energy irradiation stimulates removal of damaged cells by macrophages and increases trabecular network porosity to restore effective aqueous outflow through the drainage angle. This results in the reduction of IOP to non-pathologic levels.

The OptoSLT nano offers a shorter-than-standard laser pulse duration of just 1 ns, with advanced technology in the form of a more stable and efficient solid-state diode-pumped laser technology, thus offering a quicker and safer SLT treatment option.

THE FIRST DIODE PUMPED SOLID STATE LASER DEVICE ON THE MARKET FOR SLT

The OptoSLT nano is a new laser technology that is superior to existing SLT devices on the market. It offers very high pulse to pulse stability ($\pm 2.5\%$). By reducing laser pulse duration to 1 ns without compromising efficacy outcomes, this new technology permits faster (up to 5 Hz) and safer SLT procedures (improved pulse energy repeatability during SLT).

With a compact, highly portable design, the OptoSLT nano is an ideal addition to every doctor's practice. The device's energy levels range from 0.2 to 2.0 mJ and its red diode 635 nm aiming beam ensures precise focusing for highly predictive and effective treatment each and every time.



KEY FEATURES

Diode-pumped solid state laser source **FOR MAXIMUM EFFICIENCY AND SAFETY**

1

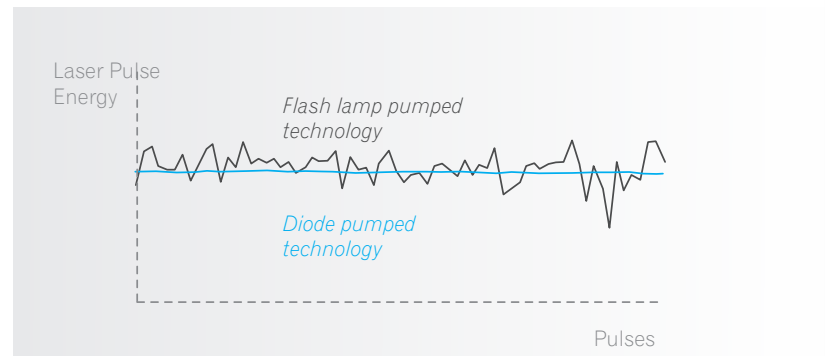
The OptoSLT nano features a diode-pumped solid state laser source that offers greater compactness and efficiency than the flash lamp-pumped solid state laser source used in classic SLT devices currently available on the market.

The compact and miniaturized solid state laser used in the OptoSLT nano offers additional safety and reliability benefits.

PPS™ - Pulse to Pulse Stability **FOR BETTER ENERGY STABILITY AND FASTER SLT TREATMENT**

2

The new device utilizes PPS™ technology to achieve a very high pulse to pulse stability of $\pm 2.5\%$, which exceeds that of other existing laser technologies. This technology permits faster SLT procedures (up to 5 Hz) that are even safer compared to current technology on the market (due to improved pulse energy repeatability during SLT treatment).



Multifunctional with slit lamp compatibility **USE AS COMPLETE DEVICE OR TO UPGRADE EXISTING SLIT LAMP**

3

The OptoSLT nano has been designed with a sophisticated dual set up. This allows seamless incorporation into any practice as a complete stand-alone device with lifting mechanism and slit lamp or added as an upgrade to most Haag Streit-type slit lamps on the market.





4

Color display **FOR EASE OF USE**

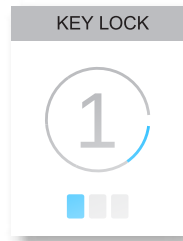
The OptoSLT nano has been designed with ease of use in mind. Its advanced color display is easy to understand and navigate, giving the physician total confidence at all times.



5

Personalized device activation **FOR COMPLETE SAFETY**

The laser device is protected with a secure personalized activation system, preventing unauthorised usage. All users must enter a 3 digit electronic key code to activate the device.



6

Innovative docking station platform **TO MEET THE NEEDS OF THE USER**

An innovative design allows the user to easily switch between the therapeutic and diagnostic modes of the device.



7

Mobile and portable **FOR ULTIMATE CONVENIENCE AND PRACTICALITY**

The OptoSLT nano has a sleek compact design for maximum user convenience. Ophthalmologists can pack the laser device into a small suitcase and transport it to another operating room or hospital with maximum ease and minimal fuss.



TECHNICAL SPECIFICATIONS

Laser source	Q-switched frequency doubled diode pumped Nd:YAG solid state laser
Wavelength	532 nm
Pulse Energy	0.2 – 2.0 mJ (0.1 mJ steps)
Spot Size	400 µm
Pulse Duration	1 ns
Pulse Mode	Single pulse
Max. repetition Rate	5 Hz
Aiming Beam	Red diode 635 nm
Electrical Requirements	100/240 V; 50-60 Hz
Dimensions (H x W x L)	29 x 17 x 18 cm (laser head and docking station)
Weight	5.4 kg (laser head and docking station)
Slit lamp	Compatible with most of Haag Streit - type slit lamps (for compatibility contact Optotek representative). Optotek OEM slit lamp provided upon request.
Standard accessories	Safety eyewear, elbow rest support, dust cover
Optional accessories	Optotek OEM Haag Streit - type slit lamp, motorized lifting mechanism, footswitch, five-position magnification changer, gonioscopic SLT lens

Specifications are subject to change without notice.



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