

*preserve vision*



**OPTOTEK**  
medical

**OptoSLT**

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# OptoSLT

Selective Laser Trabeculoplasty (SLT) is an advanced, non-invasive primary or secondary treatment of increased intraocular pressure. It employs short pulses of specific wavelength that selectively target the melanin-containing cells in the trabecular meshwork while preserving the adjacent non-pigmented eye structures. Low-energy laser irradiation evokes cytokines response what consequently activates the macrophages which clear the damaged cells. Increased trabecular meshwork porosity restores balanced aqueous outflow and lowers the intraocular pressure.

## **UNRIVALED SLT LASER SYSTEM**

The OptoSLT is a staple of glaucoma treatment for every doctor's practice. Compact design, 33 energy levels in the range of 0.2 to 2,6 mJ, a red aiming beam allowing precise focusing of the treatment beam, and built-in safety features ensure quick, safe and effective office-based SLT treatment.

## **HIGH POWER e-SlitLight™ LED ILLUMINATION SYSTEM**

Tired of replacing slit lamp bulb? Want to have a brighter light? The e-SlitLight™ LED slit lamp offers thousands of hours of bright white light originating from the solid state LED light source. The LED illumination enhances color, detail and contrast and therefore highly improves imaging. Additionally, its minimal heat emission makes the treatment comfortable even for the dry eye patients.



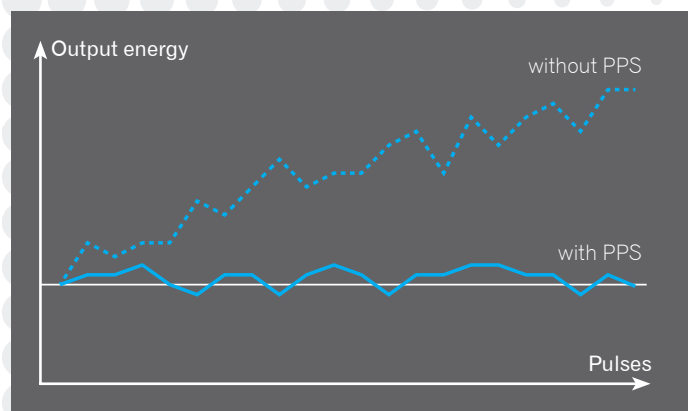
## **UNIQUE FES™ (FINE ENERGY SETTING) TECHNOLOGY FOR UNMATCHED PRECISION**

Advanced technical solutions and sophisticated electronics incorporated into the OptoSLT allow for a precise adjustment of energy in order to match the specific needs of the therapy or the patient. The fine energy setting buttons are conveniently located just next to the joystick, offering the physician easy and accurate adaptation of energy to the patient's eye response. This means the physician has 33 energy levels to choose from – unique feature making OptoSLT a top class in Selective Laser Trabeculoplasty.



## **PPS™ (PULSE TO PULSE STABILITY) TECHNOLOGY FOR ADVANCED SAFETY**

Optotek has spent extra time and effort to ensure reliability and safety of the system. The OptoSLT incorporates the superior PPS™ technology for constant monitoring and control of the output energy. The energy of each and every laser pulse exactly matches the set energy value which eliminates any risk occurring from random change in the output energy.



*MONOLITHIC DESIGN  
FOR ULTIMATE COMFORT  
AND EASE OF USE*

The OptoSLT integrates the laser, slit lamp and side mounted motorized table into a compact and stable laser system. Smooth mechanisms and ergonomic design ensure user-friendly operation and maximize the comfort for both physician and patient. The design of the table allows full wheelchair access and thus also meets the needs of disabled patients.



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## TECHNICAL SPECIFICATIONS

LASER	
Laser Source	Q switched, frequency doubled Nd:YAG
Wavelength	532 nm
Energy	0,2 to 2,6 mJ per pulse in 33 steps
Spot Size	400 $\mu$ m
Cone Angle	< 3°
Pulse Rate	1 Hz
Burst Mode	Single pulse
Pulse Duration	4 ns (typical)
Aiming Beam	Red diode; 650 nm; continuously adjustable intensity
Laser Trigger	Joystick (footswitch optionally)
Cooling System	Air convection

SLIT LAMP	
Type	e-SlitLight™
Illumination Source	White LED
Magnification	10x, 16x, 25x (6x, 10x, 16x, 25x, 40x optionally)

TABLE	
Type	Side-mounted with electrical lifting mechanism

SYSTEM DIMENSIONS	
Table Dimensions	795 x 485 mm
Table Height	700 - 900 mm
SLT Laser Dimensions	240 x 150 x 60 mm
Total System Height	1320 - 1520 mm

WEIGHT	
SLT Laser Head	2 kg
Table with Laser Electronics	47 kg

ELECTRICAL REQUIREMENTS	
Power Supply	100 - 240 V, 50 - 60 Hz, 3,2 A MAX

Specifications are subject to change without notice.





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With many years of experience in ophthalmic lasers, Optotek has a clear vision of its mission – to deliver the innovative tools and solutions to the ophthalmologists worldwide.

Designing and manufacturing User-friendly, Safe, Effective, and Reliable products is a key element of Optotek's corporate philosophy.