



# OptoYag&SLT M

*clear & preserve vision*

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The OptoYag&SLT M laser system utilizes two treatment modalities considered the gold standard in capsulotomy and treatment of glaucoma.

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

Optotek SLT laser 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.

## STREAM OF TECHNOLOGIES FOR SUPERIOR EFFECTIVENESS

YAG mode of the OptoYag&SLT M represents a synergy of optimized focusing optics, high accuracy and precision of the aiming beam system, and clean and stable Gaussian laser beam profile. Having excellent photodisruptor capability, the Optotek YAG laser enables best treatment results using lower energy and fewer shots.

## 1 **e-SlitLight™** HIGH POWER 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 significantly improves imaging. Additionally, its minimal heat emission makes the treatment comfortable even for dry eye patients.



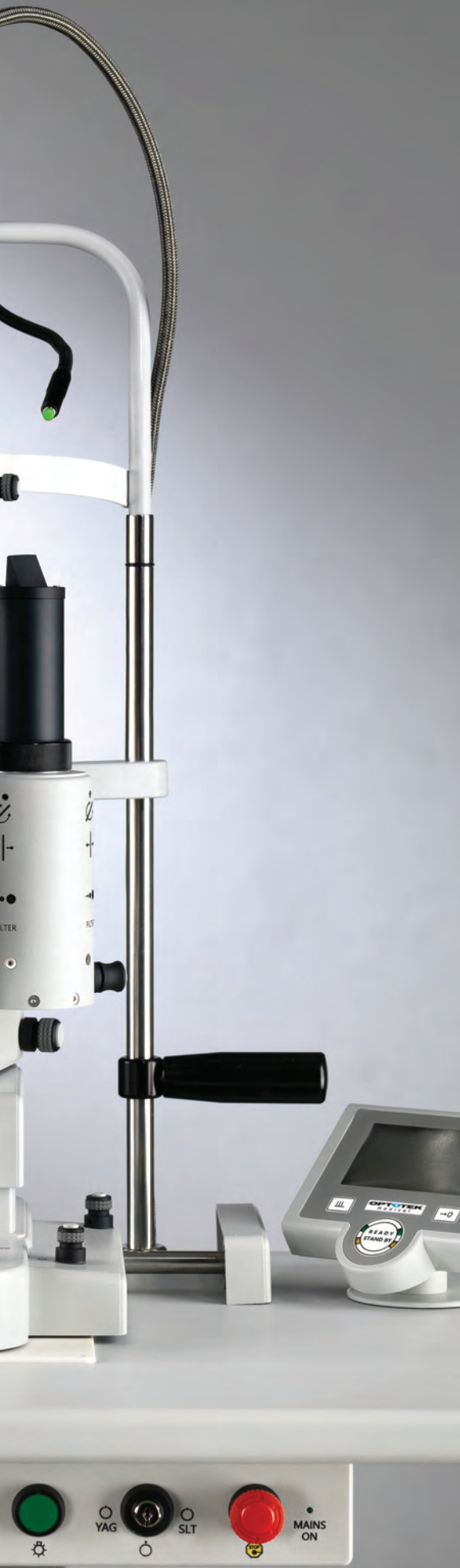
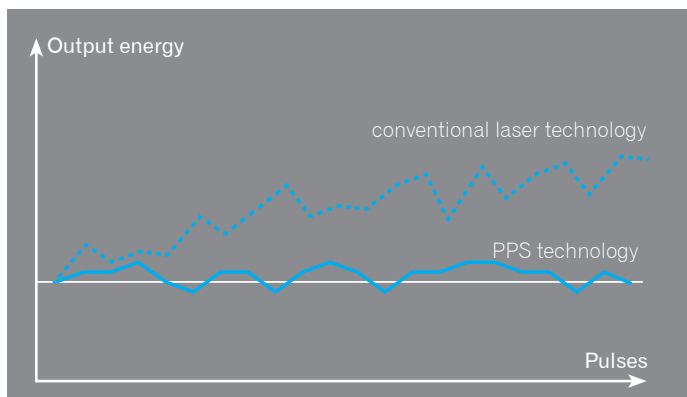
## 2 **FES™ - Fine Energy Setting** FOR UNMATCHED PRECISION

Advanced technical solutions and sophisticated electronics incorporated into the OptoYag&SLT M 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.



## 3 **PPS™ - Pulse to Pulse Stability** FOR ADVANCED SAFETY

Optotek has spent extra time and effort to ensure highest reliability and safety of the system. The OptoYag&SLT M incorporates a PPS™ technology for delivering stable output energy far exceeding current industry standards. Enhanced accuracy and stability of energy provide the highest degree of safety and assure effective and efficient eye treatments.





## 4 *Treatment at 3 Hz FOR HIGHER PERFORMANCE*

The OptoYag&SLT M with newly designed laser cavity and optimized system configuration features repetition rate at 3 Hz. Faster treatment shifts physician's productivity and patient's comfort to a completely new level.

## 5 *Easy-to-move System*

Convenient portable design allows ophthalmologists to change location with ease. Having electronics box underneath the table, the system can be moved freely to another worktop and therefore instantly ready for use.



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### TECHNICAL SPECIFICATIONS

| LASER                   |                                                                                                                                           |                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                         | YAG Mode                                                                                                                                  | SLT Mode                                                                            |
| Laser Source            | Q-switched Nd:YAG                                                                                                                         | Q switched, frequency doubled Nd:YAG                                                |
| Wavelength              | 1064 nm                                                                                                                                   | 532 nm                                                                              |
| Energy                  | 0,5 to 10 mJ per pulse in 30 steps                                                                                                        | 0,2 to 2,6 mJ per pulse in 33 steps                                                 |
| Spot Size               | < 10 μm                                                                                                                                   | 400 μm                                                                              |
| Cone Angle              | 16°                                                                                                                                       | < 3°                                                                                |
| Offset                  | Selectable: 150μm anterior;<br>0; 150, 300 μm posterior                                                                                   | Not applicable                                                                      |
| Pulse Rate              | Up to 3 Hz                                                                                                                                | Up to 3 Hz                                                                          |
| Burst Mode              | 1, 2 and 3 pulses                                                                                                                         | Single pulse                                                                        |
| Pulse Duration          | 4 ns (typical)                                                                                                                            | 4 ns (typical)                                                                      |
| Aiming Beam             | Red dual diode; 650 nm;<br>continuously adjustable intensity<br>(635, 670 nm optionally)                                                  | Red diode; 650 nm; continuously<br>adjustable intensity<br>(635, 670 nm optionally) |
| 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                    | Central mounted                                                                                                                           |                                                                                     |
| Dimensions              | 600 x 480 mm                                                                                                                              |                                                                                     |
| SYSTEM DIMENSIONS       |                                                                                                                                           |                                                                                     |
| YAG Laser Dimensions    | 125 x 257 x 68 mm                                                                                                                         |                                                                                     |
| SLT Laser Dimensions    | 240 x 150 x 60 mm                                                                                                                         |                                                                                     |
| Total System Height     | 695 – 730 mm                                                                                                                              |                                                                                     |
| WEIGHT                  |                                                                                                                                           |                                                                                     |
| Total Net Weight        | 23 kg                                                                                                                                     |                                                                                     |
| ELECTRICAL REQUIREMENTS |                                                                                                                                           |                                                                                     |
| Power Supply            | 100 - 240 V, 50 - 60 Hz, 1,1 A MAX                                                                                                        |                                                                                     |
| ACCESSORIES             |                                                                                                                                           |                                                                                     |
| Optional Accessories    | Motorized lifting mechanism, Footswitch, Elbow support, Beam splitter with co-observation tube, Warning light, Magnification changer (5x) |                                                                                     |

Specifications are subject to change without notice.



The logo for Optotek medical. The word "OPTOTEK" is in a bold, black, sans-serif font. The letter "O" is replaced by a blue circle. Below "OPTOTEK", the word "medical" is written in a smaller, black, sans-serif font.

## OPTOTEK medical

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.