

*clear vision*



**OPTOTEK**  
medical

**OptoYag**

*clear vision*

# OptoYag

OptoYag utilizes a combination of latest innovations in Nd:YAG laser technology and highly efficient e-SlitLight™ LED slit lamp. Compact design, 30 energy levels in the range of 0.5 – 10 mJ, dual red aiming beam allowing precise focusing of the treatment beam, and built-in safety features guarantee the impeccable performance of the laser system.

The OptoYag is therefore a system of choice for fast, effective and safe capsulotomy and iridotomy procedures.

## ***STREAM OF TECHNOLOGIES FOR SUPERIOR EFFECTIVENESS***

Optotek has listened very carefully to those who use photodisruptor on a daily basis, paying special attention to YAG laser effectiveness. The OptoYag is 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 OptoYag enables best treatment results using lower energy and fewer shots.

## ***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.



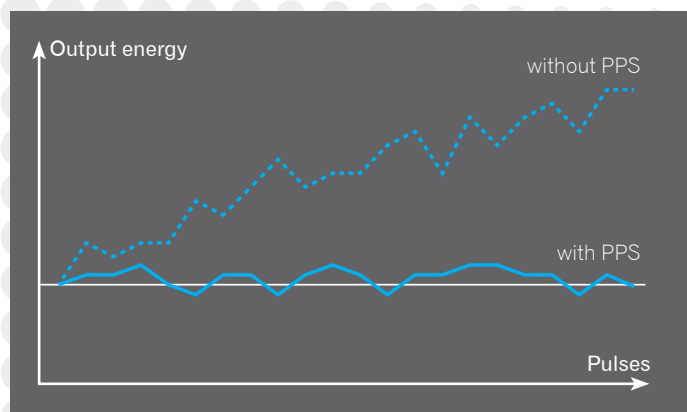
## **UNIQUE FES™ (FINE ENERGY SETTING) TECHNOLOGY FOR UNMATCHED PRECISION**

Advanced technical solutions and sophisticated electronics incorporated into the OptoYag allow for a precise adjustment of energy in order to match the specific needs of the therapy or the patient. Fine energy setting buttons are conveniently located just next to a joystick, offering a physician easy and accurate adaptation of energy to the patient's eye response. This means the physician has 30 energy levels to choose from – unique feature making OptoYag a top class in photodisruption.



## **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 OptoYag 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 OptoYag 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 Nd:YAG
Wavelength	1064 nm
Energy	0,5 to 10 mJ per pulse in 30 steps
Spot Size	< 10 $\mu$ m
Cone Angle	16°
Offset	0, +150, +300 $\mu$ m
Pulse Rate	1,5 Hz
Burst Mode	1, 2 and 3 pulses
Pulse Duration	4 ns (typical)
Aiming Beam	Red dual 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
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### SYSTEM DIMENSIONS

Table Dimensions	795 x 485 mm
Table Height	700 - 900 mm
YAG Laser Dimensions	257 x 125 x 165 mm
Total System Height	1320 - 1520 mm

### WEIGHT

YAG Laser Head with e-SlitLight	10 kg
Table with Laser Electronics	47 kg

### ELECTRICAL REQUIREMENTS

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