

# LIGHT*Las* YAG LASER PHOTODISRUPTOR



Reliable, Effective and  
Clinically Superior



**LIGHTMED**  
Enlightening Vision

# LIGHTLas YAG

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Clinically Superior

The **LightLas YAG** is the world's most popular and widely applied laser photodisruptor in posterior capsulotomy and iridotomy procedures, combining unparalleled functionality, safety and versatility with unmatched value.

#### • Safe, Reliable and User-Friendly Design

The LightLas YAG is made to exceed expectations of most discerning physicians for optimum performance in office or OR.

- Beam Splitter free design introduces astigmatism and color distortion free viewing.
- Smart modular design assures better treatment and enhances faster and easier maintenance.
- Large and conveniently located controls assure easier and undisturbed use of the laser under all treatment conditions.
- Sophisticated electronics and laser firing mechanisms assure high duty cycle operation and greater durability.
- Double coated safety filters assure greater patient and physician safety.



#### • Fully Integrated Slit Lamp Design

The LightLas YAG is integrated into a high quality slit lamp, capable for precise treatment, or to function as feature-packed examination slit lamp.

- Superb quality optics.
- Large, undistorted field of view.
- Exceptional design allowing short working distance from eye pieces to objective (reducing back strain for holding the lens) and with greater space from objective to patient eye (for convenient treatment lens positioning).
- Externally mounted Chin rest enhances positioning and comfort of the patients.



#### • Upgradable to SLT Combo, Dual & Tri Laser

The LightLas YAG uniquely upgrades with the Selective Laser Trabeculoplasty (SLT) feature, to function as a YAG/SLT workstation within the same integrated slit lamp.

- Integrates with the LightLas 532, LightLas 577, LightLas 810 Lasers forming a powerful and complete Photocoagulator/Photodisruptor workstation.
- Space saving system with efficiency of integrated laser station.
- Lower costs of ownership assure unmatched economies of scale.
- Increased practice and clinical scope.

#### • Integrated Five-position Magnification Changer

The system is supplied with an integrated five-position magnification changer that provides great flexibility for diagnostic and treatment. This clever and ergonomic design allows optimal viewing of fine structures and wide field view of the retina.

- Convenient working distance.
- Better Diagnosis.

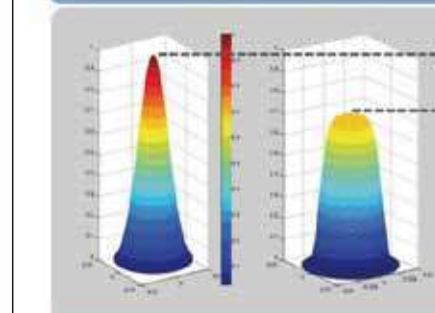


#### • Crystal Q-Switch Laser Cavity Technology

The LightLas YAG features industry's most advanced design Crystal Q-Switch Laser Cavity Technology, ensuring low energy optical breakdown, assuring precise energy delivery and stability.

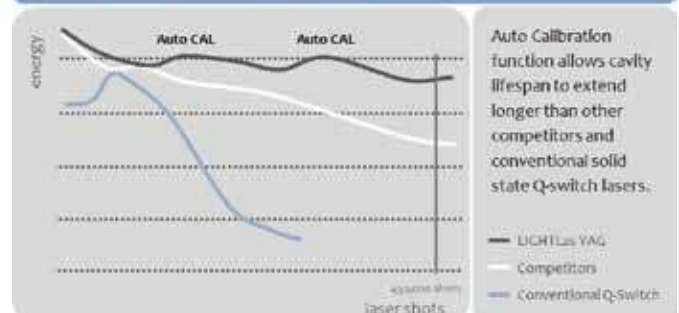
- Superb life-span.
- Efficient and Stable Energy delivery.
- Enhanced clinical precision.

#### LIGHTLas YAG Laser Gaussian Profile



Top-Flat laser profile technology

#### LIGHTLas YAG Laser Lifespan



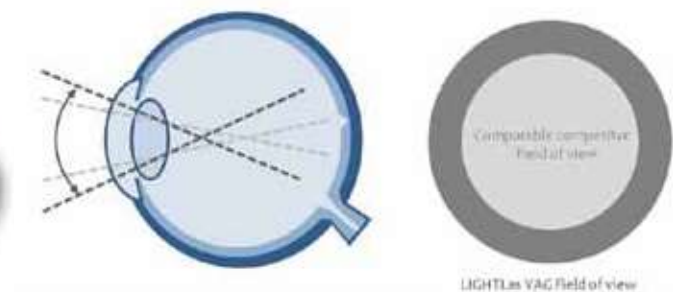
Advanced auto calibration function

#### • Quality Precision Optics

The LIGHTLas YAG features excellent quality components and high-resolution slit lamp optics, optimized for anterior segment procedures. Whereas the beam splitter free design with internally coated safety optics as opposed to fixed safety filters, assure unmatched procedural viewing clarity and a larger field of view compared to most contemporary lasers in the market.



#### LIGHTLas YAG Segment Viewing

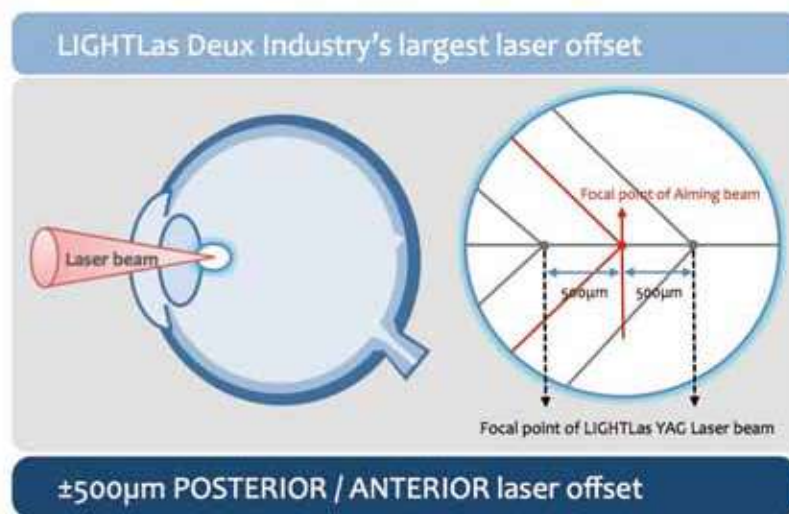


10% Larger Field of View

• **Industry's Largest YAG offset setting  $\pm 500\mu\text{m}$**

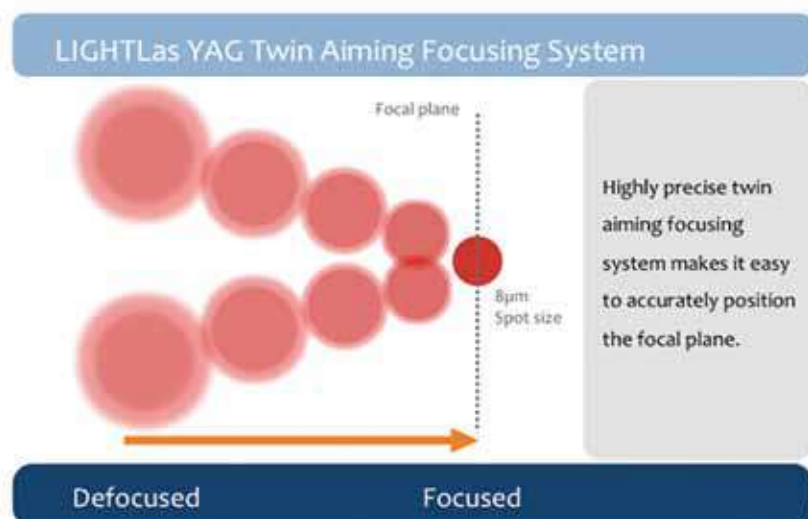
The LightLas YAG features the industry's best posterior/anterior offset setting, continuously variable  $\pm 500$  micron assuring greater clinical flexibility and safety.

- Eliminates Lens Pitting.
- Allows Lens Polishing.



• **Precision With Ease**

The LIGHTLas YAG uses a dual beam fine-focusing aiming beam system where both beams converge together at the focal target area creating a sharp and easily readable spot. The design assures a high degree of precision yet offers the comfort of effortless laser adjustments.



**OPTIONAL ACCESSORIES:**



Dual Plug Beam Splitter  
P/N:600022



Second Observer  
P/N:600023



Photographic Camera Adaptor  
P/N:600024



Video Camera Adaptor  
P/N:600025



Iridotomy Laser Lens  
P/N:600035  
Capsulotomy Laser Lens  
P/N:600036  
SLT Laser Lens  
P/N:600403

TECHNICAL SPECIFICATIONS	LIGHTLAS YAG LASER PHOTODISRUPTOR
Laser Type	Crystal Q-Switched Nd: YAG
Wavelength	1064nm
Energy Range	0.2 to $\leq 15$ mJ (in single pulse mode) 10 to $\leq 25$ mJ (in double pulses mode) 20 to $\leq 45$ mJ (in triple pulses mode)
Pulse Width	4ns
Treatment Spot Size	8 $\mu\text{m}$
Burst Mode	1, 2, or 3 pulses per shot, selectable
Mode Structure	Fundamental, diffraction limited
Avg. Air Breakdown	$\leq 2.1\text{mJ}$ (in air) & $\leq 1.5\text{mJ}$ (in liquid solution)
Cone Angle	16° degrees
Treatment Beam Offset Range	$\pm 500\mu\text{m}$ , continuously variable
Laser Repetition Rate	Up to 3.0Hz
Aiming Beam	Dual Beam laser diode, continuous wave, Red 635nm
Magnification	Integrated 5-position: 5x, 8x, 14x, 25x, 38x
Cooling	Air convection, passive
Dimensions	72cm x 54cm x 54cm (LxWxH) 28" x 21" x 21" (LxWxH)
Weight	21Kg/ 46.3lb (system) 28Kg/ 61lb (packed)
Power Requirements	100-240 VAC, 50/60 Hz, Auto ranging
Power Rating	500 VA



NOTES: Specifications are subject to change without notice. Copyright © 2012, LightMed Corporation. LightMed, LightLas, TruLase, TruSpot and Deux are a registered trademark of LightMed Corporation. LightMed devices are made strictly in accordance with the international laser safety standards: EN60601-1, EN60601-1-1, EN60601-1-2, EN606901-2-2, IEC60825-1 Rev: DCA60001

**ACCESSORY TABLES**



U-Recess & Extension  
Arms Table  
P/N:TB0006+TS0006



Dual Column  
P/N:TB0013

All Tables come supplied with height adjustable Arm Rest and available in White Color on special request.



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