

LIGHTLas YAG-V

The World's Premier Laser Photodisruptor
with CrystalQ™ Precision Pulse Technology



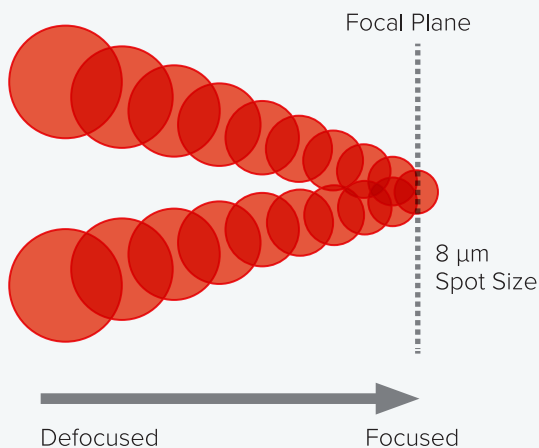
MULTI-MODALITY YAG LASER
OPTIMIZED FOR ADVANCED
CLINICAL TREATMENTS



SUPERIOR PERFORMANCE IN A CLASS OF ITS OWN

Industry's most popular laser photodisruptor, the LIGHTLas YAG-V combines unparalleled functionality, safety, and versatility.

Twin Aiming Focusing System



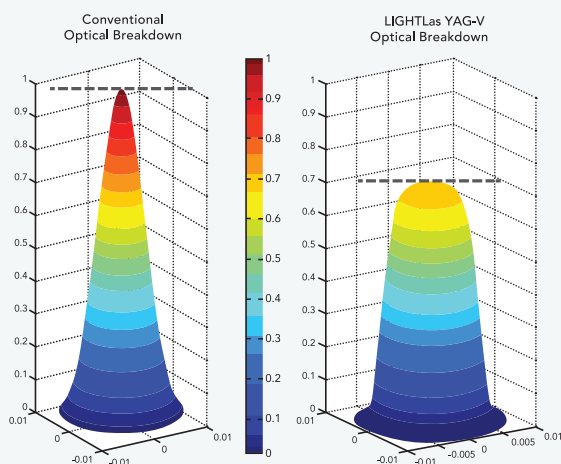
Twin Aiming Focusing System

- **Precision With Ease:** Fine-focusing aiming beam system allows both beams to converge together at the focal target to create a sharp and easily readable spot.

CrystalQ™ Precision Pulse Technology

- **Powerfully Crafted:** The unit is operated through a laser-fire Q-Switch conveniently integrated into the system, eliminating complex moving parts for a simpler, more robust design.
- **Unique Laser Cavity Technology:** Provides optimum tissue-cutting precision and consistent shot-to-shot output energy at the industry's lowest optimal breakdown levels.
- **Advanced Noise Reduction:** Improves patient compliance and allows procedures to be completed with lower energy levels to help reduce treatment side effects and lens pitting.
- **Long-Term Crystal Stability:** The Cr^{4+} crystal maintains consistent optical properties over years of operation, minimizing maintenance and service requirements.
- **Super Gaussian Beam Profile:** Ensures uniform energy distribution across the beam, reducing excessive peak intensities for controlled, predictable tissue interaction.
- **Clinically Proven:** Trusted architecture validated by over 25 years of clinical use in medical laser systems worldwide.

LIGHTLas YAG-V Crystal Q-Switch Gaussian Profile

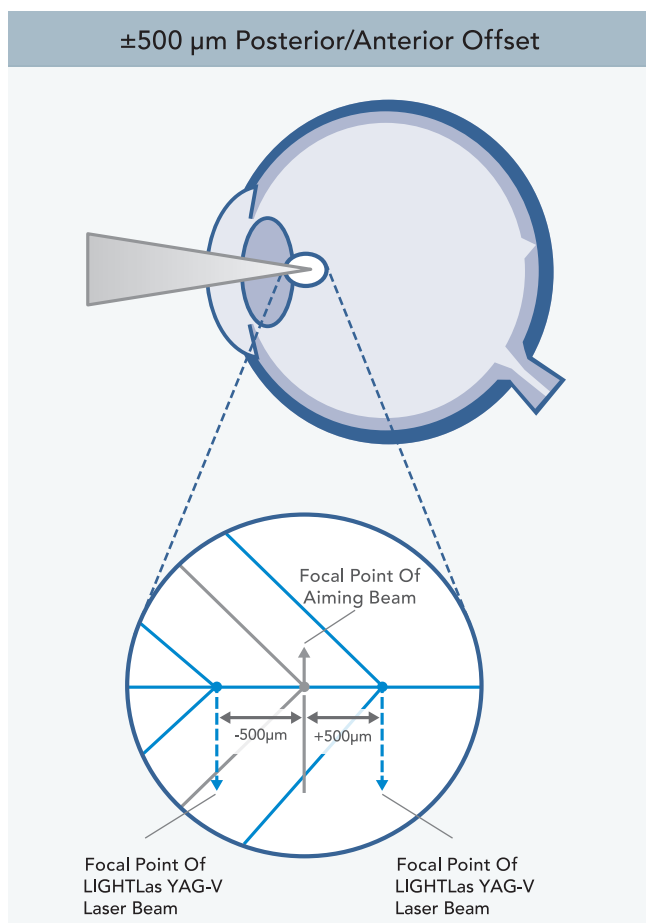


ADVANCED ANTERIOR AND POSTERIOR CAPABILITIES

A progressive laser both inside and out, the LIGHTLas YAG-V features the industry's largest range of focal plane shift paired with precision optics to assist in precise procedures with optimal outcomes.

Posterior/Anterior Laser Offset: $\pm 500\ \mu\text{m}$

- **Large Focus Shift:** Allows detailed titration of treatment focus without compromising comfort and preventing the possibility of lens pitting.
- **Clinical Versatility:** Essential for multi-patient environments with numerous IOL types.
- **Adjustable Setting:** Extensive range of $\pm 500\ \mu\text{m}$ for higher accuracy and greater control.

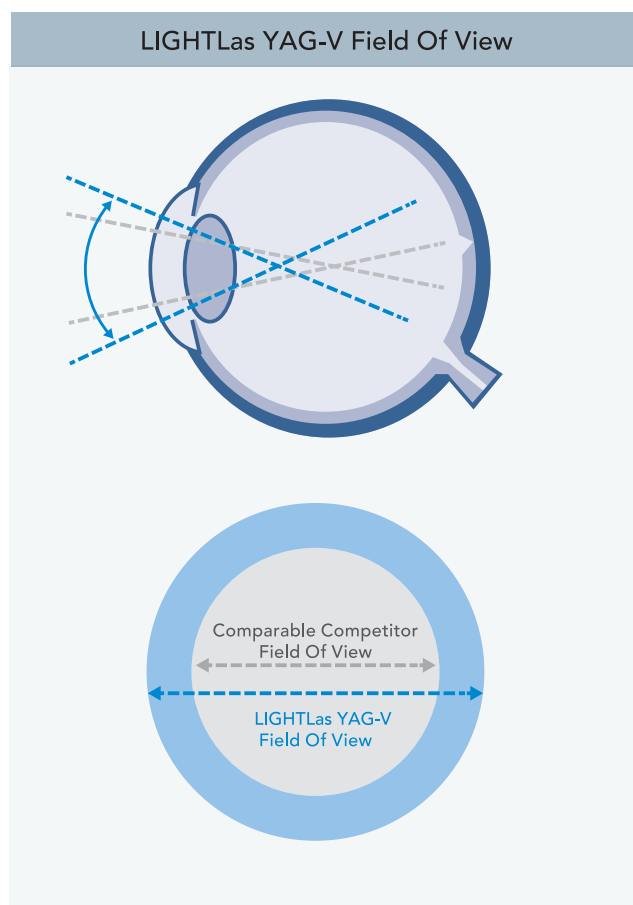


Quality Precision Optics

- **Superior Anterior Segment Procedures:** Optimized design includes high-resolution slit lamp and quality components.
- **Crisp Field Of View:** Beam splitter-free design features internally coated safety optics to assure unmatched procedural viewing.

Built-In Five Position Magnification Changer

- **Exceptional Viewing:** From fine structures to the wide-field view of the retina, the integrated magnification changer helps improve diagnosis capabilities at a convenient working distance.



STREAMLINED DESIGN THAT ADAPTS TO YOUR PRACTICE

In addition to a suite of advanced features, LIGHTLas YAG-V offers a comprehensive selection of combinations as your practice grows and clinical needs change.

Range of Workstation Options

- **Powerful Photocoagulator Integration:**
 - Upgrade with the LIGHTLas 532 (green), LIGHTLas 577 (yellow) or LIGHTLas 810 (infrared) with a slit lamp adaptor to expand clinical scope.
 - LIGHTLas Photocoagulators utilize continuous wave (CW) and exclusive SP-Mode® Microsecond Laser Technology; and together with LIGHTLas YAG-V, form a photocoagulator/photodisruptor workstation.
- **Treatment Adaptability:** LIGHTLas photocoagulators can be conveniently located on a SMART medical cart, or placed on your table of choice for a complete mobile workstation.
- **Clinical Versatility:** Uniquely upgradable at any time to include Selective Laser Trabeculoplasty (SLT) to function as an integrated YAG/SLT laser.



“ The LIGHTLas YAG-V Laser has been a great advancement. Its unmatched precision allows me to safely and effectively target the areas I need without impacting surrounding eye structures. I’ve seen firsthand how this non-invasive, in-office treatment can dramatically improve patients’ quality of life by restoring their visual clarity. The newest LIGHTMED YAG laser technology is undoubtedly helping countless individuals enjoy greater confidence and comfort in their daily lives. ”

Carlos Souza, MD, PhD
Federal University of São Paulo, Brazil

CONSISTENT PERFORMANCE WITH EFFORTLESS OPERATION

Designed for everyday clinical use, the LIGHTLas YAG-V pairs consistent output with simple, intuitive operation.

Unmatched Long-Term Performance

- **Proprietary Auto-Calibration:** Engages in auto-calibration mode as soon as the microprocessor senses degradation in output power over predetermined levels.
- **Unique Self-Diagnosis Feature:** Laser will automatically set optimum internal parameters to assure peak performance.

Intelligent and Ergonomic Features

- **Convenient Operation:** Dual hand controls enable ease of use while externally mounted chin rest facilitates patient posture and comfort.
- **Modular Design:** Assures better treatment and offers faster and easier maintenance.
- **Perfect Precision:** Advanced laser firing mechanism utilizes a direct fire-to-joystick switch mechanism for optimal performance.



“ Our clinics have used LIGHTMED lasers for a couple years now and we are very pleased. They perform at least as well as, if not better than, what we used before, and the service is outstanding. ”

Brian A. Francis, MD
Doheny Eye Institute, Los Angeles, California

LIGHTLas YAG-V SPECIFICATIONS

Laser Type	Crystal Q-switched Nd:YAG
Wavelength	1064 nm
Energy Range	0.2 to ≤ 15 mJ (in single pulse mode), 10 to ≤ 25 mJ (in double pulse mode), 20 to ≤ 45 mJ (in triple pulse mode)
Pulse Width	4 ns
Treatment Spot Size	8 μm
Burst Mode	1, 2, and 3 pulse per shot, selectable
Mode Structure	Fundamental; diffraction limited
Average Air Breakdown	2.1 mJ (≤ 1.5 mJ in liquid solution)
Cone Angle	16°
Treatment Beam Offset Range	±500 μm; continuously variable
Laser Repetition Rate	Up to 3.0 Hz
Aiming Beam	Dual beam laser diode; continuous wave (CW); 635 nm (red)
Slit Lamp Illumination	Slit lamp LED XLamp® XM-L2 2.85V 10W
Magnification	Integrated 5-position: 5x, 8x, 14x, 25x, and 38x
Cooling	Air convection; passive
Dimensions	45 cm (L) x 34 cm (W) x 52 cm (H) 18 in (L) x 13 in (W) x 20 in (H)
Weight	23 kg, 51 lbs (system) 33 kg, 73 lbs (packed)
Power Requirements	100-240 VAC (100-230 VAC where required by local registration), 50-60 Hz Auto Ranging, 500 VA

Specifications are subject to change without notice. LIGHTMED devices are made strictly in accordance with the international laser safety standards: IEC/EN 60601-1, IEC/EN 60601-1-2, IEC/EN 60601-2-22, IEC/EN 60825-1

LIGHTLas YAG-V is also available with a green aiming beam

Optional Accessories

- Dual plug beam splitter
 - Observation tube
 - Photographic camera adaptor
 - Video camera adaptor
- Iridotomy laser lens
 - Capsulotomy laser lens

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Accessory Tables

- U-recessed and extension arms single column table

**FDA registered model name: LPULSA SYL9000*
CE registered model name: Lpulsa SYL9000

