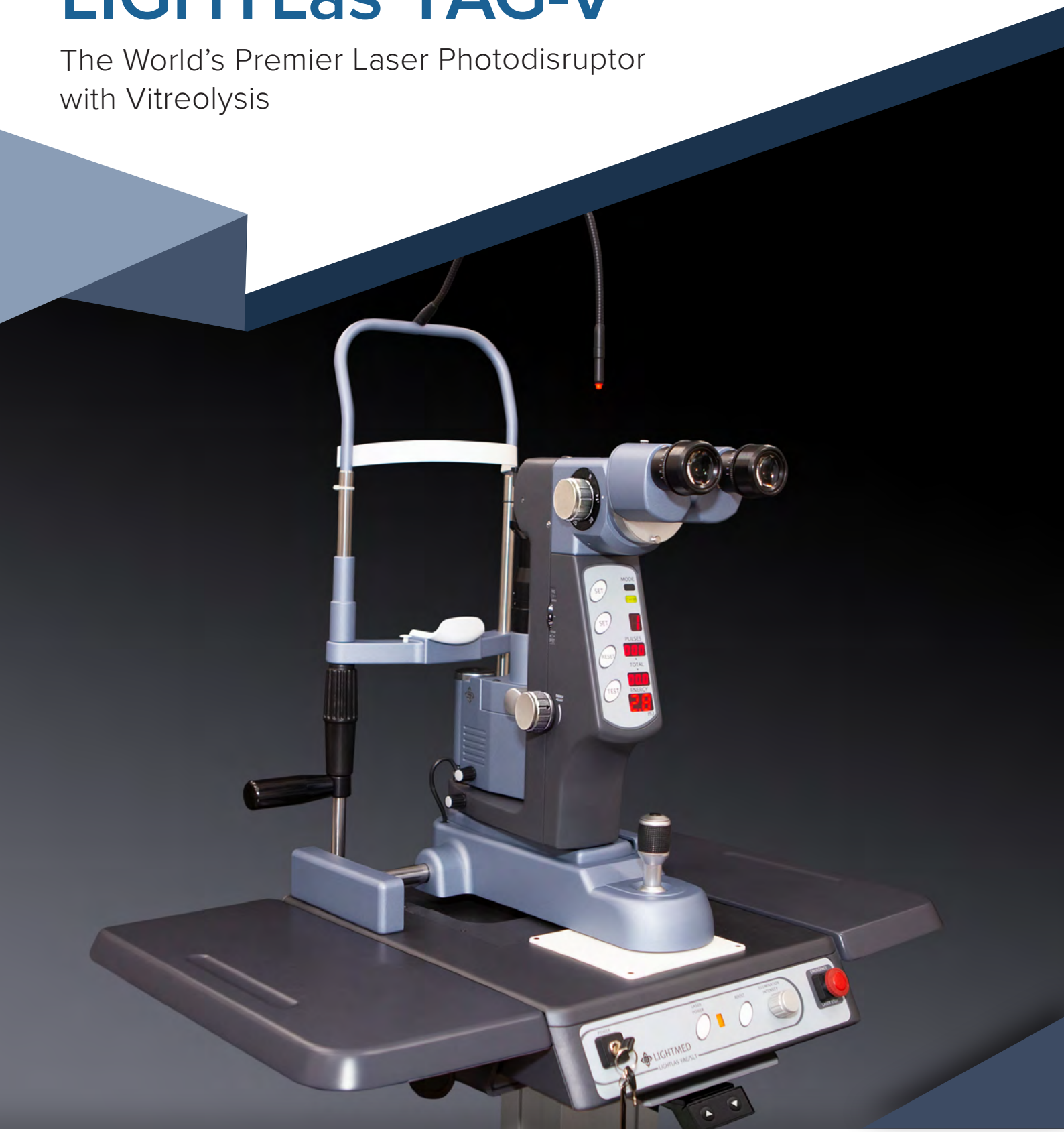
LIGHTLas YAG-V

The World's Premier Laser Photodisruptor
with Vitreolysis



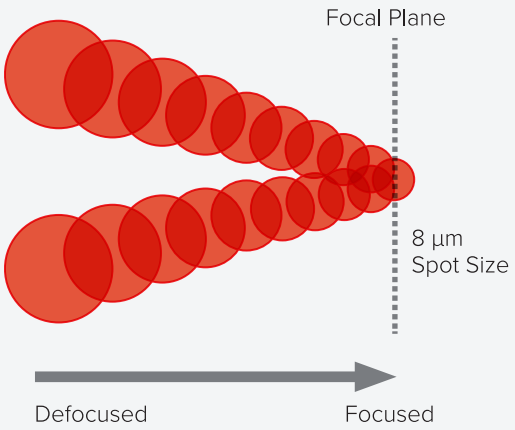
MULTI-MODALITY YAG LASER
OPTIMIZED FOR ADVANCED
CLINICAL TREATMENTS

LIGHTMED
Enlightening Vision

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.

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.

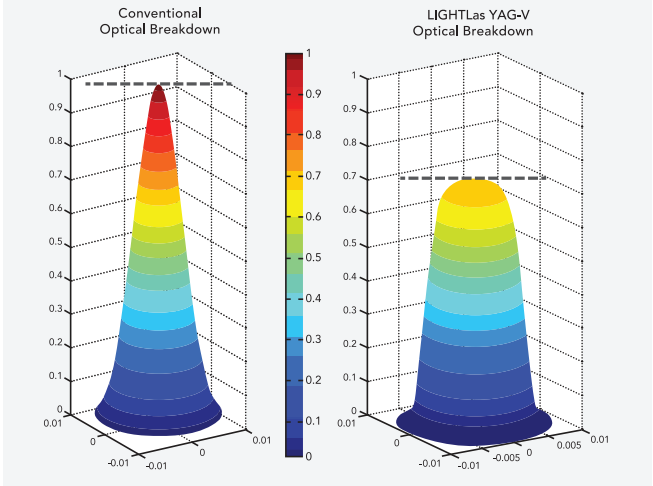
Built-In Five Position Magnification Changer

- **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.

Superb Crystal Q-Switch Laser Technology

- **Powerfully Crafted:** The unit is operated through a laser-fire Q-Switch conveniently integrated into the system.
- **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.

LIGHTLas YAG-V Crystal *Q-Switch* Gaussian Profile



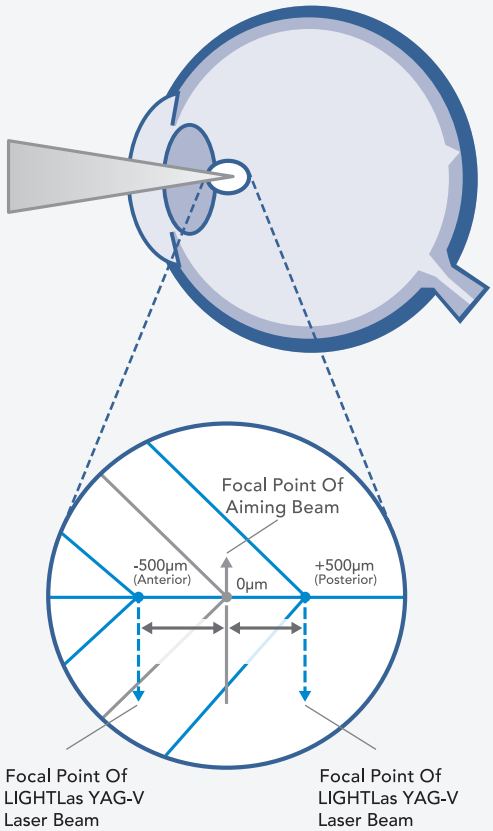
ADVANCED ANTERIOR AND POSTERIOR CAPABILITIES

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: ±500 µm

- **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 ±500 µm for higher accuracy and greater control.

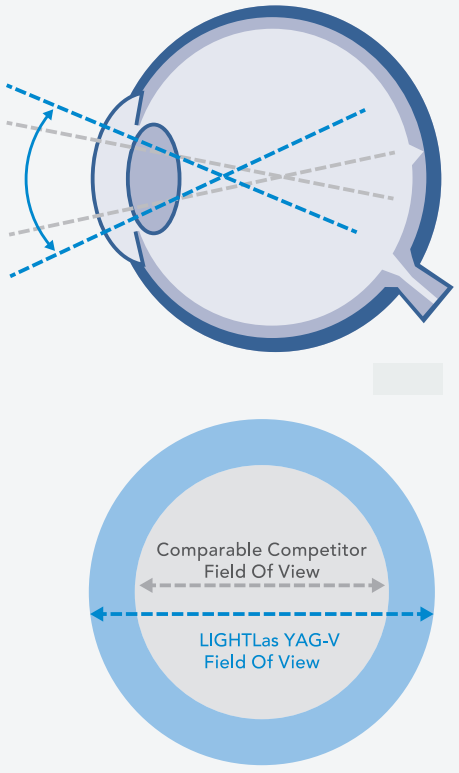
±500 µm Posterior/Anterior Offset



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.

LIGHTLas YAG-V Field Of View



ULTIMATE UPGRADABILITY

The LIGHTLas YAG-V comes standard with vitreolysis capability. Create an even more powerful multi-purpose anterior and posterior workstation with LIGHTLas YAG-V.

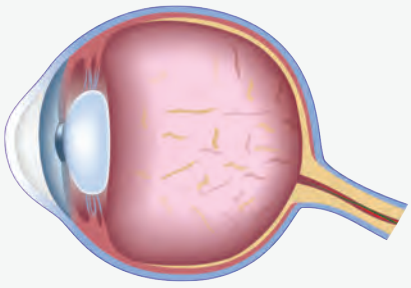
Flexibility For Successful Vitreolysis Treatment

Optimized for both posterior and anterior YAG laser therapy, LIGHTLas YAG-V allows surgeons to perform anterior or posterior capsulotomies with new-generation IOLs, peripheral iridotomies for glaucoma, and vitreolysis to treat vitreous strands and opacities—all with a single instrument.

The advanced LIGHTLas YAG-V laser has the capability to perform a non-invasive and safe treatment for vitreous strands.

- Uses a unique and advanced design to illuminate deeper into the vitreous.
- Provides an unobstructed laser beam that allows more control, convenience, and precision during each treatment.
- Ensures precise positioning of the optical breakdown and provides protection of adjacent tissue with the precision of the two-point aiming system and wide-offset range.

Vitreous Humor & Floaters



Vitreous opacities and strands are also known as eye floaters that drift in the vitreous humor of the eye. The LIGHTLas YAG-V laser can be used to perform vitreolysis, which can evaporate vitreous opacities and sever vitreous strands, therefore eliminating the visual burdens caused by the floaters.

> "I was impressed with the quality of the LIGHTMED YAG-V laser and vitreolyisis capabilities, and also its built-in ability to upgrade and include SLT functionality at any time (LIGHTLas SLT Deux-V). The laser functioned perfectly in every situation. In fact, one patient who had a vitrectomy scheduled because of his floaters was so happy after his treatment, he canceled the vitrectomy. Any practice would benefit from this laser and its full platform of ophthalmic procedures."

Stewart Galloway, MD; Crossville, TN

SIMPLISTIC DESIGN THAT ALLOWS INFINITE OPTIONS

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.

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.

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	72 cm (L) x 54 cm (W) x 54 cm (H) 28 in (L) x 21 in (W) x 21 in (H)
Weight	21 kg, 46.3 lbs (system) 28 kg, 61.7 lbs (packed)
Power Requirements	100 – 240 VAC, 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
- Mid-vitreous lens

Accessory Tables

- U-recessed and extension arms single column table

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

LIGHTMED
Enlightening Vision

1130 Calle Cordillera | San Clemente, CA 92673 | USA
T: 949-218-9555 | F: 949-218-9556 | sales@lightmed.com
www.lightmed.com