THE WORLD’S PREMIER LASER PHOTODISRUPTOR
Multimodality YAG Laser Optimized For Advanced Clinical Treatments
SUPERIOR PERFORMANCE IN A CLASS OF ITS OWN

The industry’s most popular laser photodisruptor, the LIGHTLas YAG™ combines unparalleled functionality, safety, and versatility.

**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 Crystal Q-Switch Gaussian Profile**
A progressive laser both inside and out, the LIGHTLas YAG™ 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

**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
The LIGHTLas YAG™ and LIGHTLas SLT Deux™ (YAG/SLT combination laser) can also be upgraded to the V-series, which adds YAG laser vitreolysis functionality to create an even more powerful multi-purpose anterior and posterior workstation: LIGHTLas YAG-V™ or LIGHTLas SLT Deux-V™.

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

Range Of Workstation Options

- **Powerful Photocoagulator Integration:** Works with the LIGHTLas 532™ (green), LIGHTLas 577™ (yellow), and LIGHTLas 810™ (infrared) that utilize traditional continuous wave (CW) and exclusive SP-Mode™ (sub-threshold technology) to form a photocoagulator/photodisruptor workstation

- **Treatment Adaptability:** Convenient attachment that mounts on the LIGHTLas YAG without affecting its core performance to deliver the photocoagulator treatment laser. The laser console can be conveniently located on a specially designed swivel plate for enhanced functionality, or mounted on the side column for enhanced space

- **Clinical Versatility:** Uniquely upgradeable at any time to include the Selective Laser Trebeculoplasty (SLT) feature to function as an integrated YAG/SLT laser for increased product value and space savings

Intelligent And Ergonomic Features

- **Convenient Operation:** Dual hand controls enable comfortable use under all treatment conditions, while externally mounted chin rest facilitates convenient accommodation of patient posture

- **Modular Design:** Assures better treatment and enhances faster and easier maintenance

- **Perfect Precision:** Advanced laser firing mechanism utilizes a direct fire-to-joystick switch mechanism to assure advanced performance

Premier Service

- **Best-In-Class Coverage:** Every LIGHTLas YAG comes with the reassurance of the industry-leading warranty from LIGHTMED™

- **Convenient Service:** Assure reduced product downtime with multiple service centers across the US for quick maintenance or in-office repair
Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>LIGHTLas YAG™ Photodisruptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser type</td>
<td>Crystal Q-switched Nd:YAG</td>
</tr>
<tr>
<td>Wavelength</td>
<td>1064 nm</td>
</tr>
<tr>
<td>Energy range</td>
<td>0.2 to 10 mJ, continuously variable</td>
</tr>
<tr>
<td>Pulse width</td>
<td>4 nanoseconds</td>
</tr>
<tr>
<td>Treatment spot size</td>
<td>8 µm</td>
</tr>
<tr>
<td>Burst mode</td>
<td>1, 2, or 3 pulses each burst; selectable</td>
</tr>
<tr>
<td>Mode structure</td>
<td>Fundamental; diffraction limited</td>
</tr>
<tr>
<td>Average air breakdown</td>
<td>≤ 2.5 mJ (in air); ≤ 1.5 mJ (in liquid solution)</td>
</tr>
<tr>
<td>Cone angle</td>
<td>16°</td>
</tr>
<tr>
<td>Treatment beam offset range</td>
<td>±500 µm; continuously variable</td>
</tr>
<tr>
<td>Laser repetition rate</td>
<td>Up to 3.0 Hz</td>
</tr>
<tr>
<td>Aiming beam</td>
<td>Dual beam laser diode; continuous wave (CW); 635 nm (red)</td>
</tr>
<tr>
<td>Magnification</td>
<td>Integrated 5-position: 5x, 8x, 14x, 25x, and 38x</td>
</tr>
<tr>
<td>Cooling</td>
<td>Air convection; passive</td>
</tr>
<tr>
<td>Dimensions</td>
<td>72 cm (L) x 54 cm (W) x 54 cm (H)</td>
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<tr>
<td></td>
<td>28 in (L) x 21 in (W) x 21 in (H)</td>
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<tr>
<td>Weight</td>
<td>21 kg, 46.3 lbs. (system)</td>
</tr>
<tr>
<td></td>
<td>28 kg, 61.7 lbs. (packed)</td>
</tr>
<tr>
<td>Power requirements</td>
<td>100 – 240 VAC, 50/60 Hz auto-ranging, 500 VA</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice. LIGHTMED™ devices are made strictly in accordance with the international laser safety standards: EN60601-1, EN60601-1-1, EN60601-1-1-2, EN606901-2-22, IEC60825-1 Rev: DCA60001

Optional Accessories

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

Accessory Tables

- U-recessed and extension arms single column table
- Dual column wheel chair accessible table

All tables come supplied with height adjustable armrest. Tables are available in white upon request.