LIGHTLas SLT Deux-V

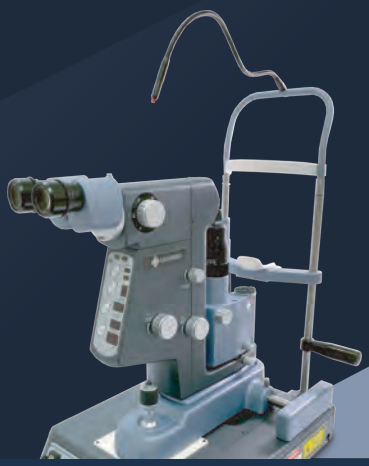
SLT/YAG COMBINATION SYSTEM
with CrystalQ™ Precision Pulse Technology



CLINICAL VERSATILITY WITH
CUTTING EDGE TECHNOLOGY

LIGHTMED®
Enlightening Vision

ADVANCED DESIGN PROVIDES INNOVATIVE THERAPY



Proven effective in treating secondary cataract and glaucoma, with expanding applications in retinal diseases, the LIGHTLas SLT Deux-V offers industry-leading versatility.

Thermal KTP Crystal Management

Exclusive Circuitry and Sofware
Eliminates KTP variation by engaging a unique thermal control mechanism:

- Guarantees optimum, shot-to-shot performance and reduces energy variation errors.
- Assures most stable SLT output energy performance over high repetition firing.

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.

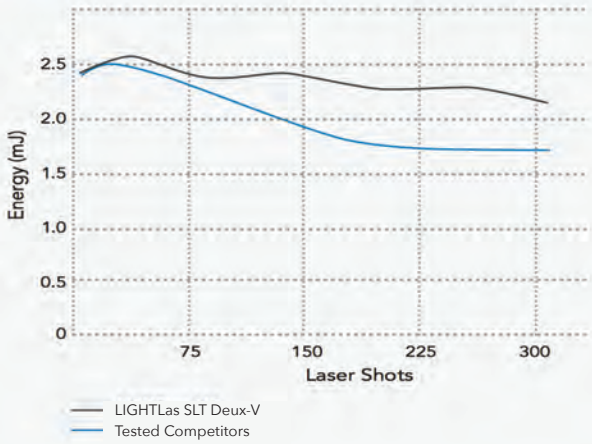
Advanced Noise Reduction: Improves patient compliance and allows procedures to be completed with lower energy levels to help reduce treatment side effects and lens pitting.

Long-Term Crystal Stability: The Cr^{4+} crystal maintains consistent optical properties over years of operation, minimizing maintenance and service requirements.

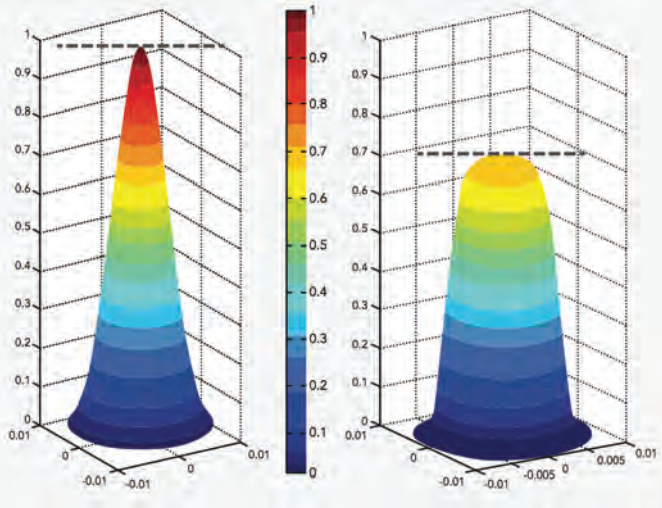
Super Gaussian Beam Profile: Ensures uniform energy distribution across the beam, reducing excessive peak intensities for controlled, predictable tissue interaction.

Clinically Proven: Trusted architecture validated by over 25 years of clinical use in medical laser systems worldwide.

LIGHTLas SLT Deux-V Energy Stability



LIGHTLas YAG-V Crystal Q-Switch Gaussian Profile



Conventional Optical Breakdown

LIGHTLas YAG-V Optical Breakdown

FULL ARRAY OF FEATURES AND BENEFITS

Intelligent and ergonomic features offer superb precision and unparalleled ease of use, ensuring optimum clinical outcomes and unmatched value.

Quality Precision Products

Superior Design
High-resolution, LED slit lamp along with quality components provide an enhanced view and seamless operation.

Large, Crisp Field of View
Beam splitter-free design features internally coated safety optics to maximize resolution and viewing clarity.

Five-Step Magnification Changer
Provides 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.

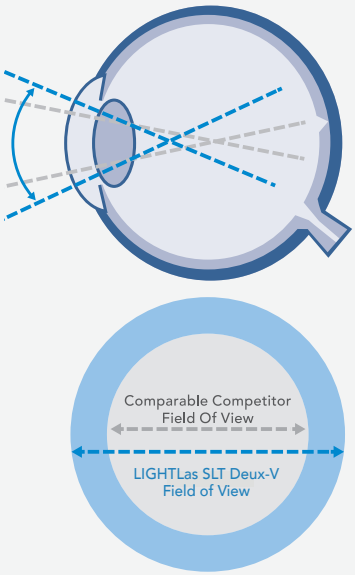
Posterior/Anterior Offset ±500 µm

Large Focus Shift
Allows detailed titration of treatment focus without compromising comfort, and preventing the possibility of lens pitting.

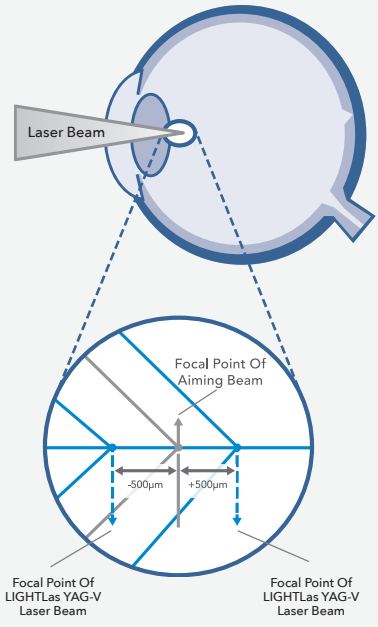
Clinical Versatility
Essential for multi-patient environment with numerous IOL types.

Adjustable Setting
Extensive offset range of ±500 µm for higher accuracy and greater control.

> LIGHTMED provided a YAG/SLT laser for me to evaluate. The optics are terrific, the laser energy is precise and everything about the console feels like a quality product. If you are in the market for an ophthalmic, office-based laser, do yourself a favor and get LIGHTMED to show you their offerings, you will be happy you did.
>
> Toby Tyson, MD; Cape Coral, FL



LIGHTLas SLT Deux-V
Field of View



LIGHTLas YAG-V
±500 µm Posterior/
Anterior Offset

SEAMLESS DUAL FUNCTIONALITY: YAG & SLT IN ONE PLATFORM

Effortlessly switch between YAG and SLT treatments with a single platform - saving space, time, and simplifying your workflow.

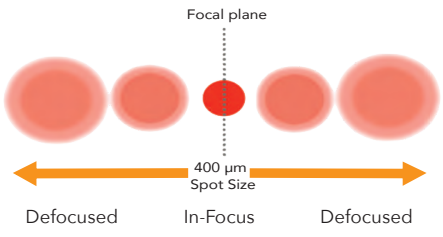
Advanced Engineering

- The LIGHTLas SLT Deux-V design simplifies service and maintenance, resulting in minimum system downtime and reliable operations.
- Innovative engineering enhances practice dynamics and clinical scope.

Unmatched Ergonomics

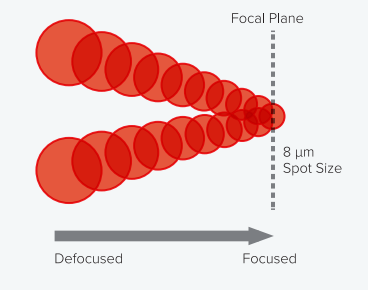
- **Convenient Operation:** Dual hand controls enable ease of use while externally mounted chin rest facilitates patient posture and comfort.
- **Modular Design:** Assures better treatment and offers faster and easier maintenance.
- **Perfect Precision:** Advanced laser firing mechanism utilizes a direct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





Single SLT aiming beam focusing is easily achievable at focal plane, producing crystal clear spot with visible internal inner rings.

SLT Aiming Focusing System



YAG twin aiming focusing system allows both beams to converge together at the focal target to create a sharp and precise spot.

YAG Twin Aiming Focusing System

"I've worked with different devices for 15 years prior to acquiring the LIGHTLas YAG/SLT Deux-V, and visibility is way better. The optics are so superior, and with the gonio lens, everything is clear especially when finding the trabecular meshwork. Essentially, you have one machine that fits all offices, offering three different approaches to glaucoma: SLT, SPLT, YAG PI. You can also add the retina laser with a simple adaptor that includes SP-Mode® Microsecond Laser Technology."

Nir Shoham-Hazon, MD; Miramichi, New Brunswick, Canada

DYNAMIC WITH INFINITE TREATMENT OPTIONS

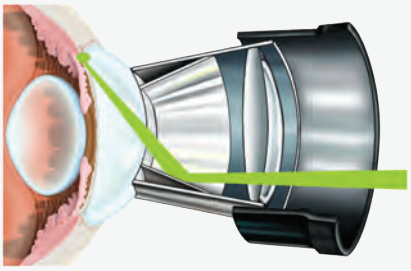
In addition to a suite of advanced features, LIGHTLas SLT Deux-V offers a comprehensive selection of combinations as your practice grows and clinical needs change.

Why Selective Laser Trabeculoplasty (SLT)?

Selective Laser Trabeculoplasty is a safe and effective laser procedure offered as the standard of care in the treatment of Primary Open Angle Glaucoma (POAG). The treatment is indicated to lower the Intra-Ocular Pressure (IOP) associated with glaucoma.

- A concentrated low energy laser beam is directed at the trabecular meshwork with an SLT lens.
- The short pulses of green (532nm) wavelength and low energy of the laser light stimulates the body's natural immune response to rebuild the functions that associate with regulation of the IOP.
- Over several weeks this response promotes improved fluid flow from the eye, resulting in lower IOP. There is minimal thermal damage which could lead to less scar tissue formation because the laser energy only interacts with pigmented cells.
- SLT is proven to be safe, and can be repeated without any known side effects.

Selective Laser Trabeculoplasty (SLT)





Range of Workstation Options

- **Powerful Multi-Functional 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 delivered through the slit lamp of the LIGHTLas SLT Deux-V.
- **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.

LIGHTLas SLT DEUX-V SPECIFICATIONS

Mode	YAG Mode	SLT Mode
Laser Type	Q-Switched Nd:YAG	Q-Switched frequency doubled Nd:YAG
Wavelength	1064 nm	532 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)	0.2 - 2.6 mJ, continuously variable
Pulse Width	4 ns	3 ns
Burst Mode	1, 2, and 3 pulse per shot, selectable	Single pulse
Mode Structure	Fundamental, diffraction limited	Frequency-doubled, diffraction limited
Average Air Breakdown	2.1 mJ (≤ 1.5 mJ in liquid solution)	N/A
Spot Size	8 µm	400 µm
Cone Angle	16 degrees	< 3 degrees
Treatment Beam Offset Range	±500 µm, continuously variable	N/A
Aiming Beam	Dual beam laser diode, continuously variable, red 635 nm	Single beam laser diode, continuously variable, red 635 nm
Slit Lamp Illumination LED	Slit lamp XLamp® XM-L2 2.85 V 10 W	
Laser Repetition Rate	Up to 3.0 Hz	
Laser Delivery	Galilean Slit Lamp integrated, stereoscopic 16x microscope with converging optics	
Magnification	Integrated: 5-position, 5x, 8x, 14x, 25x, 38x	
Safety Filter	BK7 / Fused Silica OD6@532 nm, OD4@1064 nm	
Cooling	Air convection, passive	
Power Requirements	100-240 VAC (100-230 VAC where required by local registration), 50-60 Hz Auto Ranging	
Power Rating	200 VA	
Dimensions	45cm (L) x 34cm (W) x 52cm (H) | 18in (L) x 13in (W) x 20in (H)	
Weight	24kg, 53lbs (system); 33kg, 73lbs (packed)	

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

LIGHTLas SLT is also available upon request (SLT only without YAG)

FDA
U.S. 510(k) Cleared
K090774

CE 2460





Optional Accessories

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

Tables

- Single column u-recessed table

**FDA and CE registered model name: Lightlas SeLecTor Deux*

LIGHTMED®
Enlightening Vision

www.lightmed.com

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