

LIGHTLas 577

YELLOW LASER PHOTOCOAGULATOR



More effective, safer and
faster treatment



LIGHTLas 577



LighLas577 offers novel and next-gen possibilities, bridging unmatched technology with innovation of sp-mode and Continuous Wavelengths, in true-yellow Laser Photocoagulator. The system exhibits unparalleled safety, increased clinical efficiency coupled with a powerful, durable and versatile laser.



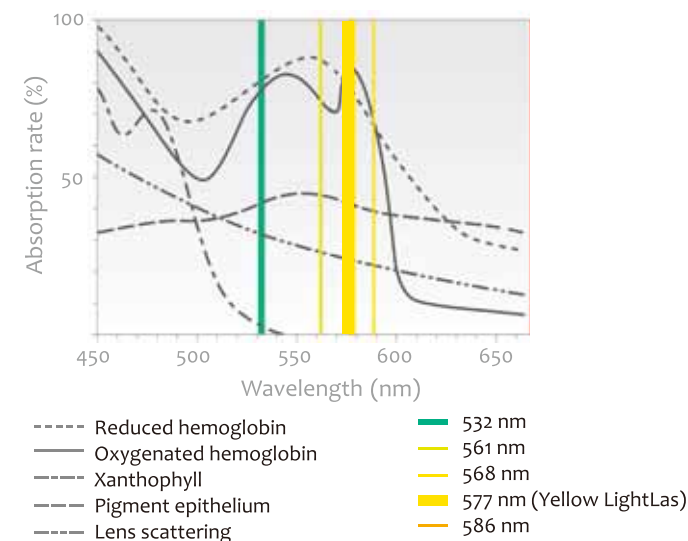
Unmatched Laser Absorption Properties:

Yellow wavelength has optimum absorption by Oxyhemoglobin:

- Exhibits low light scattering in intraocular transit, treatment is more accurate with superior transmission though opacities and enhanced tissue targeting
- As a result of low light scatter and peak oxyhemoglobin absorption, typically 50% less power is required to achieve the same therapeutic effects as with conventional green laser photocoagulation
- Resulting is safer, more controllable, faster treatment with little patient discomfort and better post-op recovery

Yellow wavelength demonstrates negligible absorption by Macular Xanthophylls:

- Significantly Increases the safety margins for macular treatment, allowing much closer approach to fovea than traditional green 532, argon514 or pseudo yellow 561nm / 586nm lasers
- Results in less thermal spread, minimizing functional damage and scar enlargement



Superb Slit Lamp Integrated System

- LightLas577 uniquely integrates with an optimised ultra high quality slit lamp, resulting in superb system, with outstanding controls, enhances and clinical efficiency.
- True-Parfocal delivery system providing superb energy density
- 50-1000µm continuously variable spot size controls with inbuilt micromanipulator
- Internal safety filters allow unobstructed viewing and superior working distance
- Superior Optic Slit Lamp for enhanced diagnosis
- Allows easy disconnection of laser console and portability to OR for use with Endoprobes

Safer, more efficient and flexible treatment

TruLase Laser Indirect Ophthalmoscope (LIO)

- Keeler integrated LIO, provides unique controls of aperture size and spot position.
- Lightweight and highly portable LIO
- Superior clarity safety filter lens for enhanced, undistorted viewing



Extensive range of Laser Delivery Systems

LightLas532 comes with an extensive range of Slit Lamp Delivery Adapters (SLA) to suite, Zeiss, Haag-Streit (and clones), and LightMed Laser slit lamps. Parfocal 50-500µm continuously variable spot size with or without micromanipulator option. Excellent, uniform power density distribution over the treatment spot. Superior safety filter optics providing enhanced view of the retina. Automatic recognition of delivery devices and treatment modes, assures simple selection and safer application.



Dual and Tri Laser Combination

- LightLas577 uniquely integrates with the LightLas SLT and YAG Lasers forming a complete and powerful Photocoagulator / Photodisruptor / SLT workstation.
- Unmatched clinical versatility
- Space saving system with efficiency functional laser work station
- Reduces the costs of ownership



Advanced LCD Touch Screen Interface

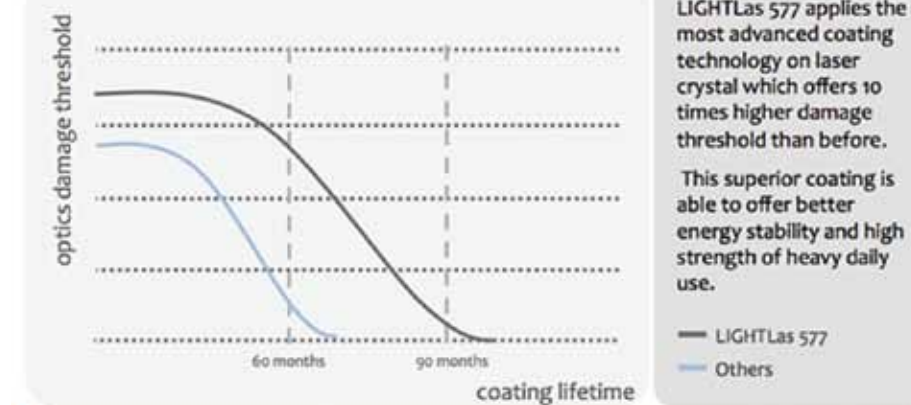
- 7" backlit color LCD touch screen has intuitive menus with easy selection and treatment settings.
- Enhances working space and offers easy access to all laser controls
- Convenient in use and space saving



Superb Performance From High Duty Laser Solution

LIGHTLas 577 combines innovative laser technology assuring highest standards of performance and versatility. The all-new digitally controlled instant-duty cycle allows fast speed and high power usage over prolonged periods. Innovative laser cavity engine and high quality optical design assure accurate power deliver and precise energy distribution across all delivery devices resulting in safer controllable treatment.

LIGHTLas 577 Laser Lifespan

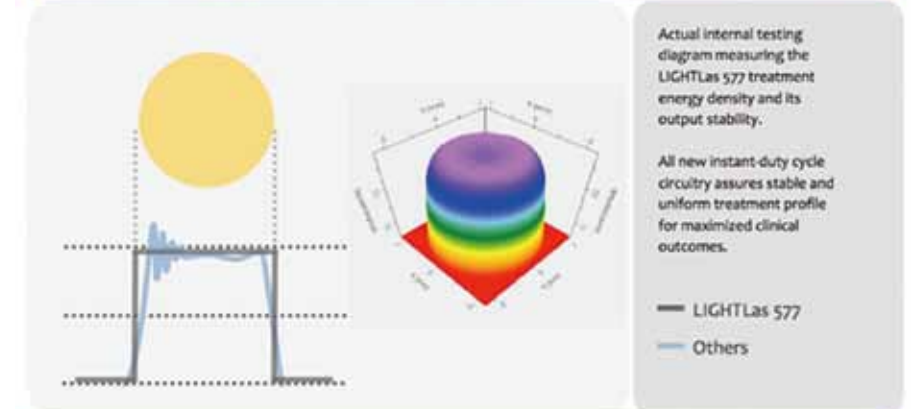


Superior damage threshold on laser components

Enhanced Treatment By Superb Energy Distribution

The innovative laser technology and quality optics of the laser and delivery systems, assure accurate power delivery and precise energy distribution for all delivery devices. LIGHTLas 577 produces excellent spot size precession with highly accurate energy density over the treatment area. The all-new digitally controlled instant-duty cycle circuitry allows ultra fast laser energy feedback loop that monitors each shot and instantly adjusts for stable output, enhancing treatment safety and clinical outcomes.

LIGHTLas 577 Laser Distribution

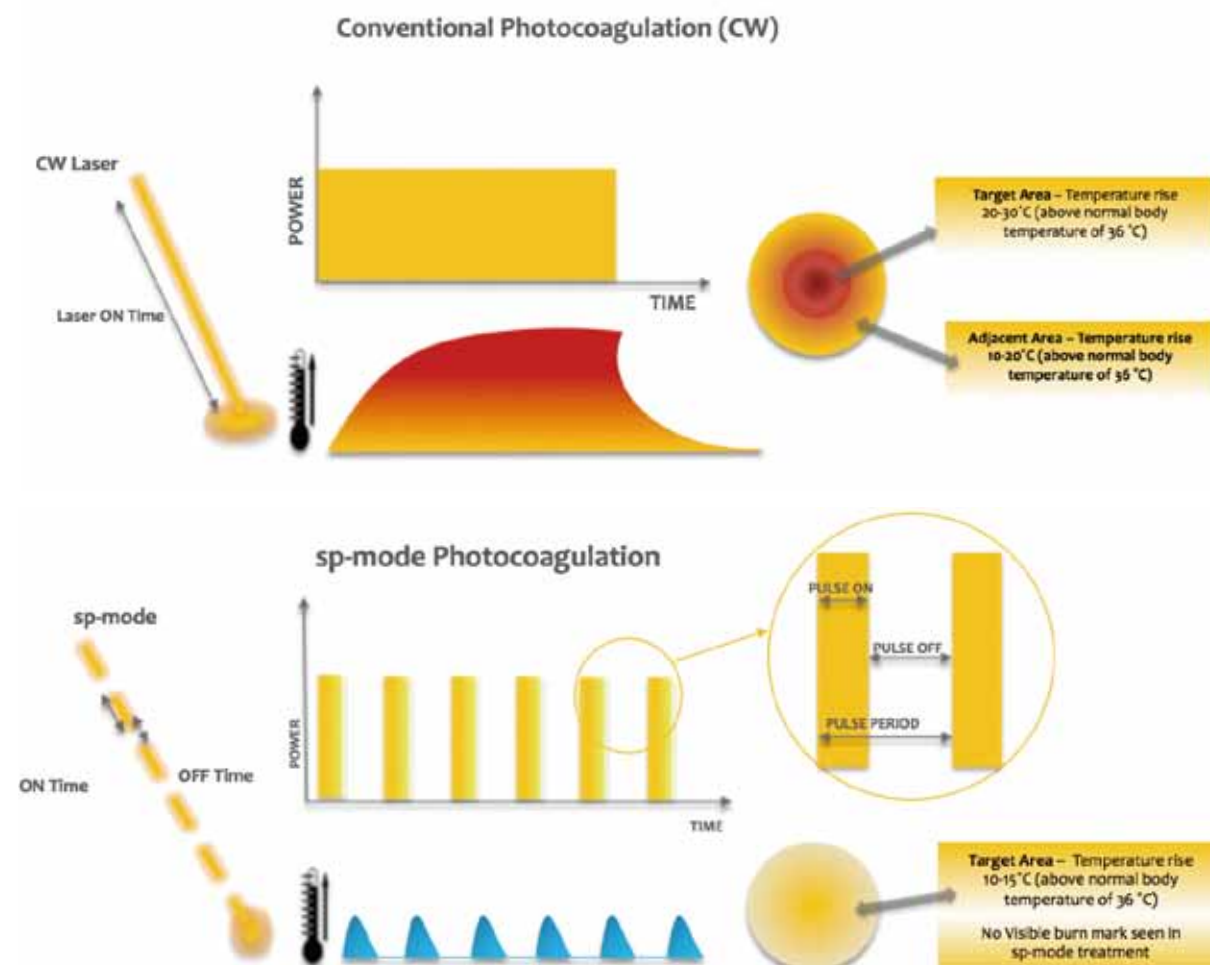


Instant duty-cycle feedback loop enhances beam profile and noise performance

sp-mode Photocoagulation:

sp-mode (also known as Sub Threshold) photocoagulation offers a novel and revolutionary approach to treatment of numerous retinal disorders with far greater safety margins and versatility of continuous wavelength lasers.

- sp-mode prevents laser induced thermal retinal damage and related treatment side effects
- Does not coagulate but stimulates the RPE to function better, releases the cytokines that modify the genetic expression and the production of VEGFs
- Non Collateral sparing destruction of healthy tissue
- Ideal for Treatments in the Macular region
- Completely Painless
- Repeatable, allowing early stage disease treatment
- Research on sp-mode has demonstrated efficacy on large number of clinical applications far exceeding those of conventional lasers such as:
 - Diabetic Macular Edema
 - Macular Edema Secondary to Retinal Vein Occlusion
 - Proliferative Diabetic Retinopathy
 - sp-mode Laser Trabeculoplasty



TECHNICAL SPECIFICATIONS	LIGHTLas 577 YELLOW LASER PHOTOCOAGULATOR
Laser system	OPSL True CW & sp-mode
Safety Classification	Class 4
Wavelength	Yellow (577 nm)
Power Output	50mW - 2.0W (continuously variable SmartControl™ increments)
Max Power at cornea	2.0W (for Endo, LIO & SLA at all spot sizes)
Pulse Duration	0.01 – 3.0s
Pulse Interval	0.01 – 3.0s, & Continuous
sp-mode Settings	<ul style="list-style-type: none"> ○ Duration: 150µs - 600µs (in 50µs increments) ○ Duty Cycle: 7.5% - 30% (in 2.5% increments) ○ Period: 1400µs - 1850µs (in 50µs increments)
Cooling	Auto Fan & TEC's for Laser & Crystal
Treatment spot size	50 to 500µm Contiguously Variable or Stepped 50 - 1000µm Contiguously Variable (Integrated Version)
Aiming beam	Laser diode 635 nm, red 0.1 - <1mW
Safety Classification	Class 2
Dimensions (laser console)	13cm (H) x 36cm (W) x 33cm (D) 5.1" x 14.5" x 12.9"
Weight (laser console)	10kg 26.4lbs
Power Requirements	100-230VAC, 50-60Hz Auto-Ranging

NOTES: Specifications are subject to change without notice. ©2012, LightMed Corporation.
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LightMed devices are made strictly in accordance with the international laser safety standards:
EN60601-1, EN60601-1-1, EN60601-1-2, EN60601-2-22, IEC 60825-1
Rev: DCA 63002

- REFERENCES: (1) True Yellow 577 for the Treatment of Retinal Disorders: Searching for the Holy Grail.
Robert P. Murphy. Insert to Retina today, April 2010;
(2) Wavelength selection in macular photocoagulation. Tissue optics, thermal effects, and laser systems Martin A. Mainster, American Academy of Ophthalmology. Volume 93, Issue 7, Pages 952-958 (1 July 1986);
(3) Continuous-wave and Micropulse 577nm Yellow Laser Photocoagulation:
A Laser for all reasons. Martin A. Mainster, Insert to Retina today, April 2010;
(4) Maia, A. Micropulse Treatment for Central Serous Retinopathy.
Insert to Retina Today, April 2010



ACCESSORIES.....



- TRUSPOT SLIT LAMP ADEPTER**
- True Parfocal 50-500µm, continuously variable spot size
 - 50-500µm stepped spot size with micromanipulator option.
 - Excellent, power density distribution over the treatment spot.
 - Superior safety filter providing enhanced view of the retina.
 - Automatic recognition of delivery devices and treatment modes, assures simple selection and safer application.



- TRULASE LASER INDIRECT OPHTHALMOSCOPE (LIO)**
- Unique controls of aperture size and spot position.
 - Lightweight and highly portable LIO.
 - Superior clarity safety filter lens for enhanced, undistorted viewing.



- ENDO OCULAR PROBES**
- Straight, Curved, Aspirating and Illuminating
 - Available in multiple Gage options
 - Standard SMA connector for convenience of multiple manufacturer choices.



- WIRELESS, POWER-CONTROL FOOT PEDAL**
- Wireless connection enables convenient positioning.
 - Foot power control, allows for hands-free laser operation.
 - Uninterrupted procedure for increased visual focus.



- FIXED AND AUTOMATED SAFETY FILTER**
- Motorized and fixed safety filter options available to suit vast variety of surgical microscopes.



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