

# LIGHTLas 532

GREEN LASER PHOTOCOAGULATOR



Versatile, efficient and  
cost effective



# LIGHTLas 532

## Versatile, efficient and cost effective Green Laser Photocoagulator



### • Portable, Versatile & High Duty Cycle Laser Solution

The third generation **LightLas532** combines innovative laser technology and ergonomic design, incorporating the highest standards of performance for use in the Office or OR.

- Digitally Controlled instant-duty cycle system, permits fast speeds and high power output over prolonged use
- Powerful 2.0W & 4.0W (optional) laser cavity assures exceptional life span and stability of the system
- Easily transportable system utilizing convenient carry handle and portable carry case
- Industry's best Value for Money green laser photocoagulator

### • Unique Slit Lamp Integrated Option

One of the world's finest slit lamp laser integrated system option, provides outstanding controls, enhances safety and increased clinical flexibility.

- Superior Optic Slit Lamp for enhanced diagnosis
- 50-1000µm continuously variable spot size controls
- True-Parfocal delivery system providing superb energy density and increases clinical versatility
- Internal safety filters allow larger field viewing, and undistorted crystal clear view of the retina
- Unobstructed, and longer working distance between objective lens and patient's eye increases comfort and precision in operating

### • 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



### • Dual & Tri Combo Laser Integration

**LightLas532** integrates with the LightLas YAG and LightLas SLT/Deux Lasers forming a powerful and complete Photocoagulator/Photodisruptor/SLT workstation.

- Space saving system with efficiency of integrated laser station
- Lower costs of ownership assure unmatched economies of scale
- Increased practice and clinical scope

### • 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



### • Wireless, Power Control Foot Pedal

The optional ergonomic design foot pedal enables easy positioning and adjustment of treatment power settings.

- Allows hands-free operation
- Uninterrupted procedure for increased visual focus



### • 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 50-50µm 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

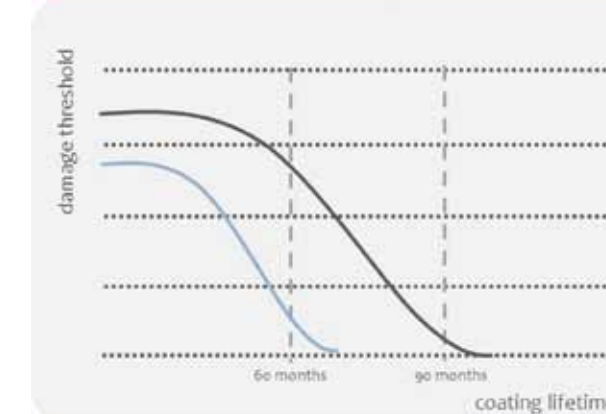


### • Unparalleled Performance From High Duty Laser Solution

LIGHTLas 532 combines highly innovative laser technology assuring supreme standards of performance and versatility, with up to 10 times better life span compared to contemporary photocoagulators in the market.

- Laser cavity with adapting patented diffusion bonding design Convenient in use and space saving
- The most advanced coating technology of the laser optical

### LIGHTLas 532 Laser Lifespan



LIGHTLas 532 applies the most advanced coating technology on laser crystal which offers 10 times higher damage threshold than before. This superior coating is able to offer better energy stability and high strength of heavy daily use.

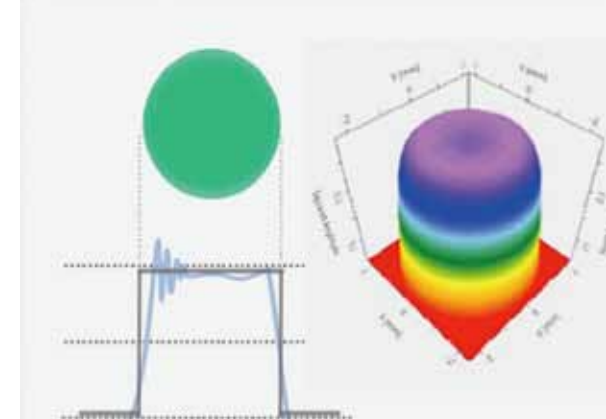
### Superior damage threshold on laser components

### • 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.

- Laser cavity with adapting patented diffusion bonding design Convenient in use and space saving
- The most advanced coating technology of the laser optical

### LIGHTLas 532 Laser Distribution



Actual internal testing diagram measuring the LIGHTLas 532 treatment energy density and its output stability.

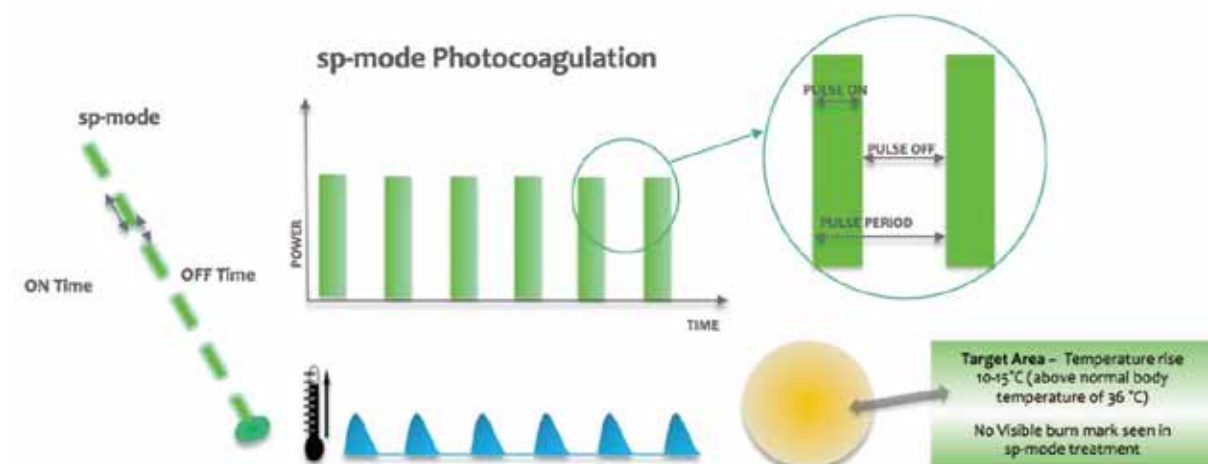
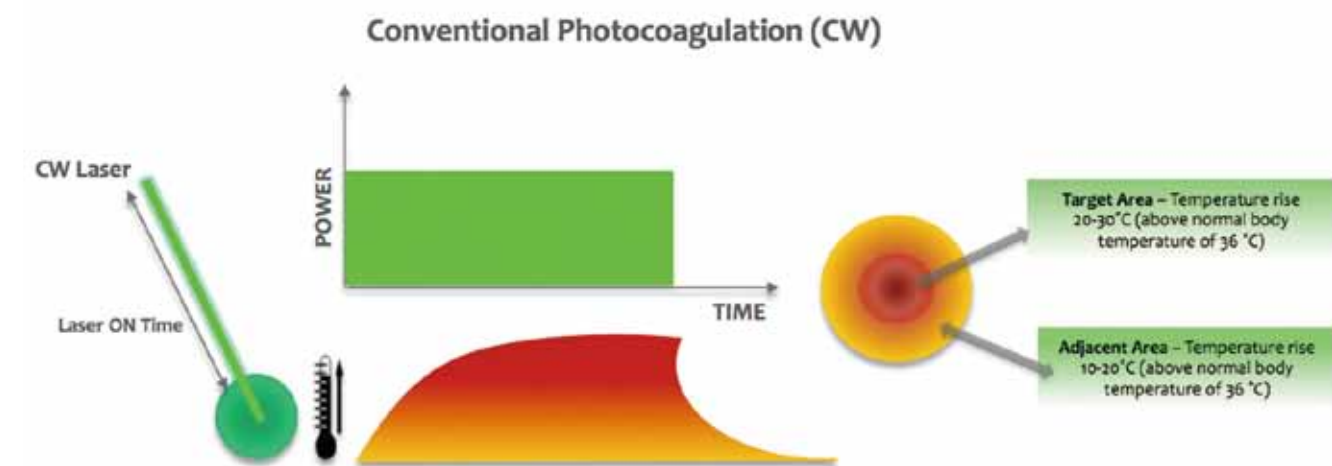
All new instant-duty cycle circuitry assures stable and uniform treatment profile for maximized clinical outcomes.

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

### Tissue Friendly sp-mode™ Photocoagulation

LIGHTLas 532 can be used in traditional Continuous Wavelength (CW) and sp-mode (Sub-Threshold Photocoagulation) treatment modalities allowing conventional and next-gen approach in management of Retinal and Glaucoma disease.

The sp-mode is the latest evolution in LightMed laser photocoagulators offering a novel approach to achieve optimum clinical outcomes whilst eliminating laser-induced thermal tissue damage and treatment side effects. This technology allows for a broader range of treatment modalities with ongoing studies demonstrating that physicians may now treat disorders at a much earlier stage, with possibility of repeat treatment in retinal and glaucoma applications.



### ACCESSORIES



LIO



Wireless Foot Pedal



Endoprobes & G-Probe



Safety filter

| TECHNICAL SPECIFICATIONS   | LIGHTLas 532 GREEN LASER PHOTOCOAGULATOR  |
|----------------------------|---|
| Laser system               | DPSS True CW  |
| Safety Classification      | Class 4   |
| Wavelength                 | Green (532 nm)  |
| Power Output               | 50mW - 2.0W & 50mW - 4.0W (ENT optional)  |
| Max Power at cornea        | 2.0W (Endo, LIO & SLA @ 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"><li>○ Duration: 150µs - 600µs (in 50µs increments)</li><li>○ Duty Cycle: 7.5% - 30% (in 2.5% increments)</li><li>○ Period: 1400µs - 1850µs (in 50µs increments)</li></ul> |
| Cooling                    | Auto Fan & TEC's for Laser & Crystal  |
| Treatment spot size        | 50 to 500µm Contiguously Variable or Stepped<br>50 - 1000µm Contiguously Variable (Integrated Version)  |
| Aiming beam                | Laser diode 653nm, red 0.1 - <1mW   |
| Safety Classification      | Class 2   |
| Dimensions (laser console) | 13cm (H) x 36cm (W) x 33cm (D)<br>5.1" x 14.5" x 12.9"  |
| Weight (laser console)     | 10kg<br>26.4lbs   |
| Power Requirements         | 100-230VAC, 50-60Hz Auto-Ranging  |

NOTES: Specifications are subject to change without notice. ©2012, LightMed Corporation. LightMed, LightLas, TruLase, TruSpot and Deux are a registered trademark of LightMed Corporation. LightMed devices are made strictly in accordance with the international laser safety standards: EN60601-1, EN60601-1-1, EN60601-1-2, EN606901-2-22, IEC 60825-1 Rev: DCA62002

### OPTIONAL ACCESSORIES

- Endoprobes (Straight, Curved, Aspirating)
- TruSpot SLA for Zeiss, Haag Streit (analogues)
- TruSpot SLA for LightLas YAG / SLT / SLT Deux
- LightMed-CSO SL 950/SL 980 (integrated SLA)
- TruLase Keeler Integrated LIO
- Power Control, Wireless FootPedal
- Motorized & Fixed Safety Filter for microscopes



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