



PROVEN PERFORMANCE.  
INCOMPARABLE RELIABILITY.  
INFINITE INTEGRATION.

# LIGHTLas 532

GREEN LASER PHOTOCOAGULATOR  
WITH SP-Mode™

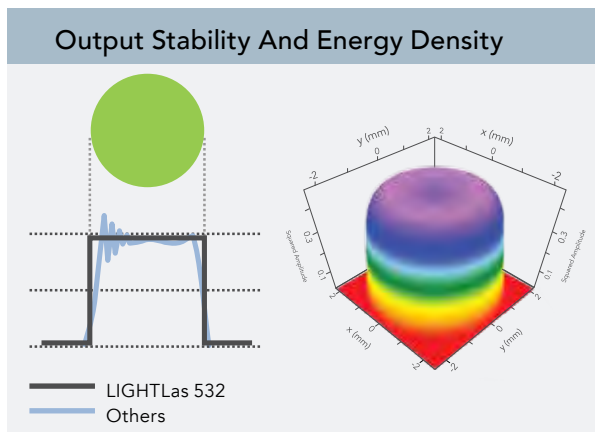
# INCOMPARABLE RELIABILITY



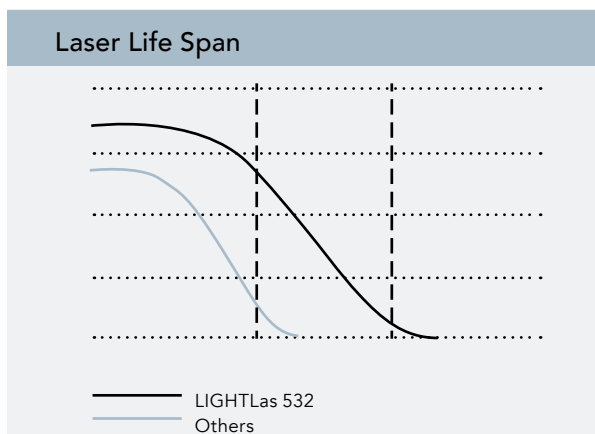
With more than 20 years of proven dependability, the LIGHTLas 532 is engineered to withstand daily usage with superior, extended performance.

## Consistent Power

- **Laser Cavity Bonding:** Patented design with a 2.0 W or 4.0 W (optional) laser cavity assures exceptional life span and stability of the system.
- **Instant Duty-Cycle Circularity:** This feature assures stable and uniform treatment profile for maximized clinical outcomes.



- **Superior Laser Crystal Coating:** The advanced coating technology offers 10 times higher damage threshold than most conventional photocoagulators. This superior coating enables advanced energy stability.



## Confident Performance

- **Continuous System Monitoring:** Innovative technology continuously measures and monitors the system to ensure optimal performance.
- **Intuitive Messaging:** Provides immediate, user-friendly notification of an issue in the rare event that the system is not performing at optimal levels.

## Premier Service

- **Best-In-Class Coverage:** Every LIGHTLas 532 comes with the reassurance of the industry-leading warranty from LIGHTMED.
- **Convenient Service:** Assure reduced product downtime with sales and service centers located worldwide for quick maintenance or in-office repair.

“The LIGHTMED combination laser system has proven to be beneficial to all the doctors in our large practice who specialize in various ophthalmic sub-specialties. It’s amazing how one console is able to meet the needs of anterior and posterior doctors. Not only is the laser great but the service LIGHTMED provides is impressive.”

Lawrence Woodard, MD; Omni Eye Services  
Atlanta, GA

# UNMATCHED SIMPLICITY



Efficiently designed to maximize workspace and optimize workflow, the LIGHTLas 532 provides a convenient way to access both the patient and laser controls. The central display is just a glance away and functions with a simple touch.

## Portable Space-Saving Design

- **Small, Sleek Design:** Compact footprint provides additional workspace and can be easily integrated into any clinic or operating room workstation.
- **Convenient And Portable:** Each LIGHTLas 532 is designed with a convenient handle and includes a portable carrying case.

## Intuitive Touch Screen Technology

- **User-Friendly:** Easy-to-read 7" backlit LCD touch screen includes menus with simple selection and treatment settings.



## Wireless Foot Pedal

- **Ergonomically Designed:** Foot pedal allows hands-free operation and uninterrupted procedures for increased visual focus.
- **Optional Power Adjustment Foot Pedal:** A simple tap enables adjustment of treatment power settings for easy positioning.



# NEXT-GENERATION OPTIONS



To help optimize patient outcomes, LIGHTLas 532 can be used in traditional continuous wave or our exclusive next-generation SP-Mode™ Microsecond Laser Technology.

## SP-Mode™ Microsecond Laser Technology

The latest innovation in LIGHTMED laser therapy, SP-Mode™ offers a groundbreaking treatment approach to achieving optimal clinical outcomes. Ongoing studies show that physicians are now able to:

- Eliminate laser-induced thermal tissue damage and treatment side effects
- Deliver a broader range of treatment modalities
- Treat disorders at a much earlier stage
- Provide repeat treatment in retinal and glaucoma applications

### Conventional Continuous Wave (CW) Treatment



### SP-Mode™ Microsecond Laser Technology



# INFINITE INTEGRATION



Designed for versatility in the operating room and clinic, LIGHTLas 532 offers a comprehensive selection of combinations to address retinal and glaucoma diseases as your practice grows. With an array of pattern configurations to best suit your clinical needs, its dual and tri combo laser integration and unique slit lamp option also helps maximize control, improve safety, and enhance clinical outcomes.



## Dual And Tri Combo Laser Integration

LIGHTLas 532 works with the LIGHTLas YAG-V and LIGHTLas SLT Deux-V to form a powerful and complete photocoagulator/photodisruptor/SLT workstation—all with vitreolysis.

## TruLase Laser Indirect Ophthalmoscope (LIO) Compatibility

Integrated LIO provides unique controls of aperture size and spot positioning for enhanced, precise viewing.



## Superior Slit Lamp Option

Recognized as one of the world's finest slit lamp laser integration systems, the LIGHTMED system provides outstanding control, increased safety, and enhanced clinical flexibility.

- 50-1000  $\mu\text{m}$  for continuous variable spot size control
- True parfocal delivery system provides superior energy distribution and clinical versatility
- Optical design and superior lenses allow a larger field of viewing and a precise, crystal-clear view of the retina
- Provides an unobstructed, variable working distance between objective lens and patient for improved comfort

## Range Of Slit Lamp Delivery Adapters

Engineered with automatic recognition of delivery devices and treatment modes for simple selection and safer application, the LIGHTLas 532 includes an extensive range of slit lamp delivery adapters (SLAs) to fit most Haag-Streit and LIGHTMED slit lamps.



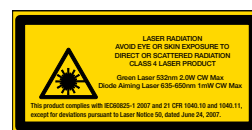
## Technical Specifications

Model	LIGHTLas 532 Green Laser
Laser system	Diode Pump Solid State (DPSS) true CW and SP-Mode™
Safety classification	Class 4
Wavelength	532 nm (green)
Power output	0.05 to 2.0 W, continuously variable
Max power at cornea	2.0 W (Endo, LIO, and SLA at all spot sizes)
Spot sizes	Integrated slit lamp: 50 – 1,000 µm Attachment slit lamp: 50 – 500 µm Laser indirect ophthalmoscope (LIO): 300 µm
Pulse duration	0.01 – 3.0 seconds, continuously variable
Pulse interval	Variable from 0.01 to 3.0 seconds, and continuous
SP-Mode™ settings	Duty cycle: 5% - 30% Duration: 100 - 600 µs
Aiming beam	635-650 nm (red), max. power 1.0 mW
Safety classification	Class 2
Dimensions (laser console)	13 cm (H) x 36 cm (W) x 33 cm (D) 5.1 in (H) x 14.5 in (W) x 12.9 in (D)
Weight (laser console)	12 kg 26.4 lbs

Specifications are subject to change without notice. LIGHTMED devices are made strictly in accordance with the international laser safety regulations and standards: EN60601-1, EN60601-1-1, EN60601-1-1-2, EN606901-2-22, IEC 60825-1

## Optional Accessories

- Endoprobes (straight, curved, illuminating, aspirating)
- TruSpot SLA for Haag Streit (analogues)
- TruSpot SLA for LIGHTLas YAG/SLT/SLT Deux
- LIGHTMED - CSO SL 950/SL 980 (integrated SLA)
- Motorized & Fixed Safety Filter for microscopes
- TruLase Keeler Integrated Laser Indirect Ophthalmoscope (LIO)
- Power Control, Wireless Foot Pedal



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THE NEW GOLD STANDARD IN DEPENDABILITY,  
INTEGRATION, AND PERFORMANCE

# LIGHTLas 577

YELLOW LASER PHOTOCOAGULATOR  
WITH SP-Mode™

# SUPERIOR PERFORMANCE IN TRUE YELLOW



Recognized as the new gold standard in laser therapy, the LIGHTLas 577 increases clinical efficiency and delivers unparalleled safety. The high-performance true yellow wavelength enables delivery of safer, faster, and more controlled treatments.

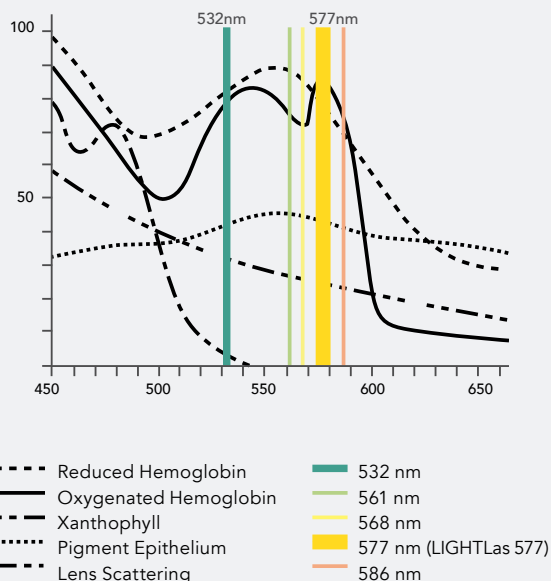
## Optimum Absorption by Oxyhemoglobin

- **Absolute Control:** Provides low light scattering in intraocular transit for increased accuracy and superior transmission.
- **Reduced Power:** Typically requires 50% less power to achieve the same therapeutic effects as conventional green laser photocoagulation.

## Negligible Absorption by Macular Xanthophylls

- **Closer Approach:** Significantly increases the safety margins for macular treatment with immediate access to fovea when compared to traditional green 532 nm, argon green 514 nm, or pseudo yellow 561 nm / 586 nm lasers.
- **Minimized Thermal Damage:** Decreased thermal spread to reduce functional damage and scar enlargement.

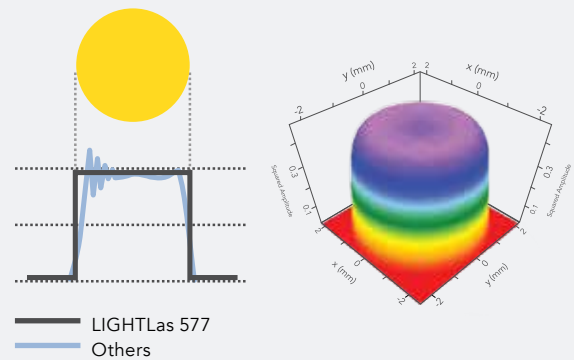
### Laser Absorption Properties



## Consistent Power Delivery Across Life Span

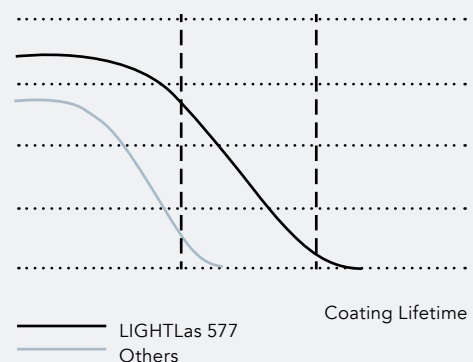
- **Laser Cavity Bonding:** Patented design with a 2.0 W laser cavity assures exceptional life span and stability of the system.
- **Instant Duty-Cycle Circularity:** This feature assures stable and uniform treatment profile for maximized clinical outcomes.

### Output Stability And Energy Density



- **Superior Laser Crystal Coating:** The advanced coating technology offers 10 times higher damage threshold than most conventional photocoagulators. This superior coating enables advanced energy stability over prolonged use.

### Laser Life Span





# NEXT-GENERATION OPTIONS



In addition to delivering clinically superior performance, LIGHTLas 577 can help optimize patient outcomes with the use of traditional continuous wave or our exclusive next-generation SP-Mode™ Microsecond Laser Technology.

## SP-Mode™ Microsecond Laser Technology

The latest innovation in LIGHTMED laser therapy, SP-Mode™ offers a groundbreaking treatment approach to achieving optimal clinical outcomes. Ongoing studies show that physicians are now able to:

- Eliminate laser-induced thermal tissue damage and treatment side effects
- Deliver a broader range of treatment modalities
- Treat disorders at a much earlier stage
- Provide repeat treatment in retinal and glaucoma applications

### Conventional Continuous Wave (CW) Treatment



### SP-Mode™ Microsecond Laser Technology



# DEPENDABILITY MEETS EASE OF USE



Compact and efficiently designed to maximize workspace and optimize workflow, the LIGHTLas 577 provides a dependable, easy-to-use platform to help meet and enhance your treatment goals.

## Confident Performance

- **Continuous System Monitoring:** Innovative technology continuously measures and monitors the system to ensure optimal performance.
- **Intuitive Messaging:** Provides immediate, user-friendly notification of an issue in the rare event that the system is not performing at optimal levels.

## Premier Service

- **Best-In-Class Coverage:** Every LIGHTLas 577 comes with the reassurance of the industry-leading warranty from LIGHTMED.
- **Convenient Service:** Assure reduced product downtime with multiple sales and service centers located worldwide for quick maintenance or in-office repair.



## Portable Space-Saving Design

- **Small, Sleek Design:** Compact footprint provides additional workspace and can be easily integrated into any clinic or operating room workstation.
- **Convenient And Portable:** Each LIGHTLas 577 is designed with a convenient handle and includes a portable carrying case.

## Intuitive Touch Screen Technology

- **User-Friendly:** Easy-to-read 7" backlit LCD touch screen includes menus with simple selection and treatment settings.



## Wireless Foot Pedal

- **Ergonomically Designed:** Foot pedal allows hands-free operation and uninterrupted procedures for increased visual focus.
- **Optional Power Adjustment Foot Pedal:** A simple tap enables adjustment of treatment power settings for easy positioning.



# ULTIMATE INTEGRATION



Designed for versatility in the operating room and clinic, LIGHTLas 577 offers a comprehensive selection of combinations to address retinal and glaucoma diseases as your practice grows. With an array of pattern configurations to best suit your clinical needs, its dual and tri combo laser integration and unique slit lamp option helps maximize control, improve safety, and enhance clinical outcomes.



## Dual and Tri Combo Laser Integration

LIGHTLas 577 works with the LIGHTLas YAG-V and LIGHTLas SLT Deux-V to form a powerful and complete photocoagulator/photodisruptor/SLT workstation—all with vitreolysis.

## TruLase Laser Indirect Ophthalmoscope (LIO) Compatibility

Integrated LIO provides unique controls of aperture size and spot positioning for enhanced, precise viewing.



## Superior Slit Lamp Option

Recognized as one of the world's finest slit lamp laser integration systems, the LIGHTMED system provides outstanding control, increased safety, and enhanced clinical flexibility.

- 50-1000  $\mu\text{m}$  for continuous variable spot size control
- True parfocal delivery system provides superior energy distribution and clinical versatility
- Optical design and superior lenses allow a larger field of viewing and a precise, crystal-clear view of the retina
- Provides an unobstructed, variable working distance between objective lens and patient for improved comfort

## Range of Slit Lamp Delivery Adapters

Engineered with automatic recognition of delivery devices and treatment modes for simple selection and safer application, the LIGHTLas 577 includes an extensive range of slit lamp delivery adapters (SLAs) to fit most Haag-Streit and LIGHTMED slit lamps.

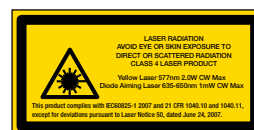
## Technical Specifications

Model	LIGHTLas 577 Yellow Laser
Laser system	Optically Pumped Semiconductor Laser (OPSL) true CW and SP-Mode™
Safety classification	Class 4
Wavelength	577 nm (yellow)
Power output	50 mW – 2.0 W (continuously variable SmartControl increments)
Max power at cornea	2.0 W (Endo, LIO, and SLA at all spot sizes)
Pulse duration	0.01 – 3.0 seconds
Pulse interval	0.01 – 3.0 seconds, and continuous
SP-Mode™ setting	<ul style="list-style-type: none"> <li>• Duration: 150 <math>\mu</math>s – 600 <math>\mu</math>s (in 50 <math>\mu</math>s increments)</li> <li>• Duty cycle: 5% – 30% (in 2.5% increments)</li> <li>• Period: 1400 <math>\mu</math>s – 1850 <math>\mu</math>s (in 50 <math>\mu</math>s increments)</li> </ul>
Aiming beam	Laser diode 653 nm (red), 0.1 – <1 mW
Safety classification	Class 2
Dimensions (laser console)	13 cm (H) x 36 cm (W) x 33 cm (D) 5.1 in (H) x 14.5 in (W) x 12.9 in (D)
Weight (laser console)	12 kg 26.4 lbs

Specifications are subject to change without notice. LIGHTMED devices are made strictly in accordance with the international laser safety regulations and standards: EN60601-1, EN60601-1-1, EN60601-1-1-2, EN606901-2-22, IEC 60825-1

## Optional Accessories

- Endoprobes (straight, curved, illuminating, aspirating)
- TruSpot SLA for Haag Streit (analogues)
- TruSpot SLA for LIGHTLas YAG/SLT/SLT Deux
- LIGHTMED - CSO SL 950/SL 980 (integrated SLA)
- Motorized & Fixed Safety Filter for microscopes
- TruLase Keeler Integrated Laser Indirect Ophthalmoscope (LIO)
- Power Control, Wireless Foot Pedal



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OPTIMAL WORKSTATION  
FOR EVERY SPECIALTY

# LIGHTLas 810

DIODE LASER PHOTOCOAGULATOR  
WITH SP-Mode™



# UNMATCHED DURABILITY AND INTUITIVE CONTROLS



The LIGHTLas 810 is built with advanced technology and engineering in order to provide incomparable reliability for the most dependable laser system on the market.

## Consistent Power

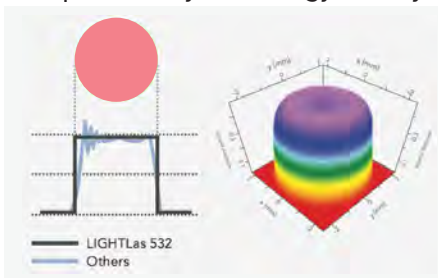
### Laser Cavity Bonding

The patented design with a 3.0W laser cavity assures exceptional life span and stability of the system.

### Instant Duty-Cycle Circularity

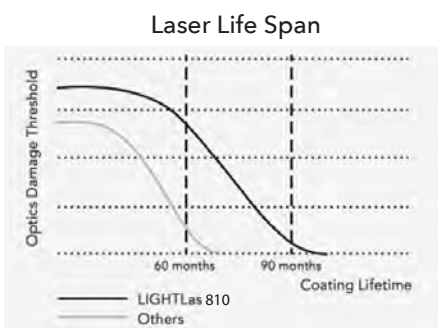
This feature assures stable and uniform treatment profile for maximized clinical outcomes.

Output Stability and Energy Density



### Superior Laser Crystal Coating

The advanced coating technology offers 30% higher damage threshold than more conventional photocoagulators. This superior coating enables advanced energy stability over prolonged use.



## Confident Performance

### Continuous System Monitoring

LIGHTMED's innovative technology continuously measures and monitors the system to ensure optimal performance.

### Intuitive Messaging

Provides immediate, user-friendly notification of an issue in the rare event that the system is not performing at optimal levels.

### Portable Space-Saving Design

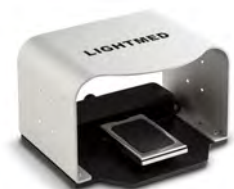
- **Small, Sleek Design:** Compact footprint provides additional workspace and can be easily integrated into any clinic or operating room workstation.
- **Convenient and Portable:** Each LIGHTLas 810 is designed with a convenient handle and includes a portable carrying case.

### Intuitive Touch Screen Technology

- **User-Friendly:** Easy-to-read 7" backlit LCD touch screen includes menus with simple selection and treatment settings.

### Wireless Foot Pedal

- **Ergonomically Designed:** The foot pedal allows for hands-free operation and uninterrupted procedures for increased visual focus.
- **Easy Positioning:** A simple tap enables adjustment of treatment power settings quickly and easily.



# OPTIMAL WORKSTATION FOR EVERY SPECIALTY

The unique properties of the 810nm infrared wavelength in traditional CW (Continuous Wavelength) and SP-Mode™ Microsecond Laser Technology provide surgeons with a broader range of treatment modalities for various retinal and glaucoma disorders.



The LIGHTLas 810 further integrates with the LIGHTLas YAG and LIGHTLas SLT Deux with Vitreolysis lasers to form a powerful anterior and posterior multi-treatment laser platform.

## More Possibilities for Treating Glaucoma

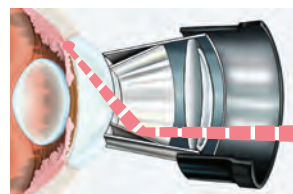
- **SP-Mode™ Laser Trabeculoplasty (SPLT):** The procedure applies microsecond bursts of laser energy resulting in comparable IOP-lowering effects of argon laser trabeculoplasty (ALT) without collateral damage.
- **Transscleral Cyclophotocoagulation (TSCPC):** The treatment utilizes a special LC glaucoma probe, offering a long-term, effective intraocular pressure reduction for patients with refractory and advanced stage glaucoma.

## Applications for Every Specialty

The broad selection of delivery devices and treatment modes enables a wide range of clinical applications:

- CW – Continuous Wavelength Photocoagulation
- SP-Mode™ – Sub-Threshold Microsecond Photocoagulation
- SPLT – SP-Mode™ Laser Trabeculoplasty
- TSCPC\*\* – Transscleral Cyclophotocoagulation
- ROP – Retinopathy of Prematurity

### SP-Mode™ Laser Trabeculoplasty (SPLT)



SPLT applies microsecond pulses with a much longer pulse length than SLT, but the tissue temperature rises slowly, as the laser energy is delivered in short microbursts over an extended period of time. The procedure may minimize the IOP spikes that can sometimes occur after other laser procedures, offering a safe and repeatable treatment option.

\*\* TSCPC procedure disposables are not available for sale in the USA.

# NEXT-GENERATION OPTIONS



SP-Mode™ Microsecond Laser Technology along with traditional continuous wave treatment are built into the LIGHTLas 810 laser system to optimize patient outcomes.

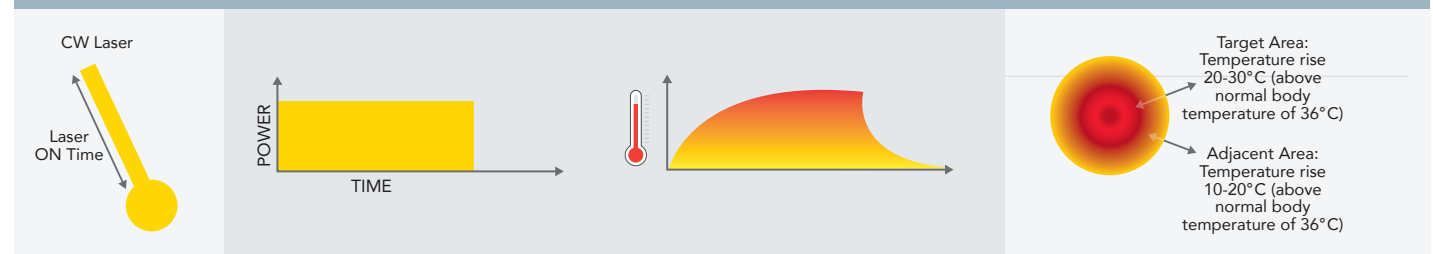
LIGHTLas 810 - Infrared Diode Laser		
GLAUCOMA	Primary Open Angle, Closed Angle, Refractory Glaucoma	SP-Mode™ Laser Trabeculoplasty (SPLT) Transscleral Cyclophotocoagulation (TSCPC), Iridotomy
RETINA	Proliferative Retinopathy (Diabetic, Retinal Vein Occlusion), Macular Edema, Barricade of Retinal Tears/Lattice Degeneration/Detachments, Sub-Retinal (Choroidal) Neovascularization, Retinopathy of Prematurity	Pan Retinal Photocoagulation (PRP), Focal Treatment, Grid Treatment
AMD	Age-Related Macular Degeneration (AMD) with Choroidal Neovascularization (CNV)	Focal Treatment, Grid Treatment

## SP-Mode™ Microsecond Laser Technology

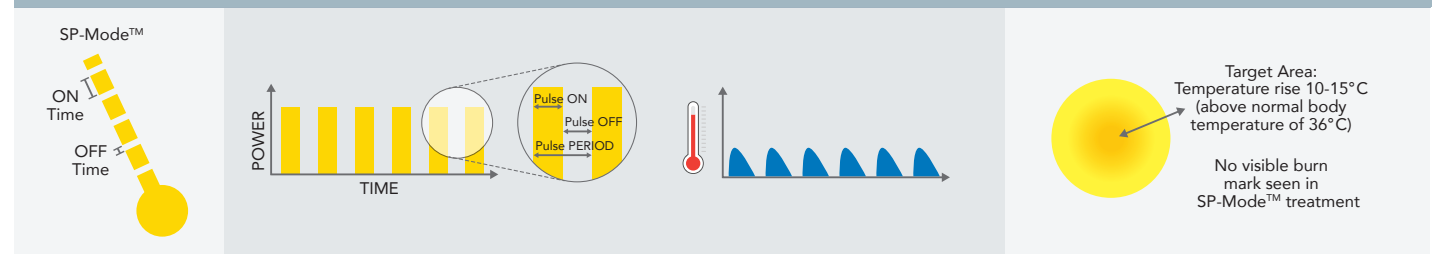
SP-Mode™, the latest innovation in LIGHTMED laser therapy, offers a groundbreaking treatment approach to achieving optimal clinical outcomes. Ongoing studies show that physicians are now able to:

- Eliminate laser-induced thermal tissue damage and treatment side effects
- Deliver a broader range of treatment modalities
- Treat disorders at a much earlier stage

### Conventional Continuous Wave (CW) Treatment



### SP-Mode™ Microsecond Laser Technology



# UNLIMITED POSSIBILITIES



Designed for versatility in the operating room and clinic, LIGHTLas 810 offers a comprehensive selection of combinations to address retinal and glaucoma diseases as your practice grows.



With an array of pattern configurations to best suit your clinical needs, its dual and tri-combo laser integration and unique slit lamp option also help maximize control, improve safety, and enhance clinical outcomes.

## Dual and Tri Combo Laser Integration

LIGHTLas 810 works with the LIGHTLas YAG-V and LIGHTLas SLT Deux-V to form a powerful and complete photocoagulator/photodisruptor/SLT/Vitreolysis workstation.

Recognized as one of the world's finest slit lamp laser integration systems, the LIGHTMED system provides outstanding control, increased safety, and enhanced clinical flexibility.

- 50 -1000  $\mu\text{m}$  continuous variable spot size control
- True parfocal delivery system provides superior energy distribution and clinical versatility
- Advanced and quality optical design that provides a larger field of viewing and a precise, crystal-clear view of the retina
- Provides an unobstructed, variable working distance between objective lens and patient for improved comfort



## TruLase Laser Indirect Ophthalmoscope (LIO) Compatibility

Integrated LIO provides unique controls of aperture size and spot positioning for enhanced, precise viewing.

## Range of Slit Lamp Delivery Adapters

Engineered with automatic recognition of delivery devices and treatment modes for simple selection and safer applications, the LIGHTLas 810 includes an extensive range of slit lamp delivery adapters (SLAs) to fit most Haag-Streit and LIGHTMED slit lamps.



## Optional Accessories

- Endoprobes (straight, curved, illuminating, aspirating)
- Glaucoma Probe (G-Probe)
- TruSpot SLA for Haag Streit (analogues)
- TruSpot SLA for LIGHTLas YAG/SLT/SLT Deux
- LIGHTMED - CSO SL 950/SL 980 (integrated SLA)
- Motorized & Fixed Safety Filter for microscopes
- TruLase Keeler Integrated Laser Indirect Ophthalmoscope (LIO)
- Power Control, Wireless Foot Pedal

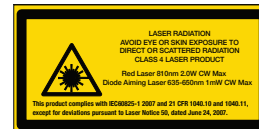


### LIGHTLas 810 TECHNICAL SPECIFICATIONS

Model	LIGHTLas 810 Infrared Diode Laser Photocoagulator
Laser System	Diode Laser
Treatment Laser Safety Classification	Class 4
Wavelength	Red (810nm)
Power Output	50-3000mW
Max Power at Cornea	3.0W (Endo, LIO & SLA @ all spot sizes)
Pulse Duration	0.01 - 10.0s
Pulse Interval	0.01 - 3.0s & Continuous
SP-Mode™ Settings	Duration: 10ms - 10,000ms (in 50 µs increments) Duty Cycle: 5%, 7.5%, 10%, 12.5%, 15%, 20%, 30% Period: 10ms-3,000ms and OFF (0 ms) (in 50 µs increments)
Cooling	Auto Fan & TEC's for Laser & Crystal
Treatment Spot Size	50 - 1,000µm Integrated Version
Aiming Beam	Laser diode 635-650nm, red 0.1 <1mW
Aiming Laser Safety Classification	Class 2
Dimensions (Laser Console)	13cm (H) x 36cm (W) x 33cm (D) 51" x 14.5" x 12.9"
Weight (Laser Console)	12kg 26.4 lbs
Power Requirements	100-230 VAC, 50-60Hz Auto Ranging

### LASER INDIRECT OPHTHALMOSCOPE

Indirect Model	Keeler All Pupil II
Retinal Spot Size	300µm nominal at focus with 20D Laser Lens
Illumination Power	From Laser Console or stand alone power source
Fiber Length	3m
Weight	Less than 500g without laser attachment
Safety Filter	Fixed filter OD 4 @ 810nm
Beam Divergence	Cone angle 20°



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