

# LIGHTLas TruScan Pro V2.0

PATTERN SCANNING PHOTOCOAGULATOR  
with SP-Mode™



THE INNOVATIVE MULTI-WAVELENGTH  
PATTERN SCANNING LASER



# SUPERIOR PERFORMANCE WITH FOUR WAVELENGTHS

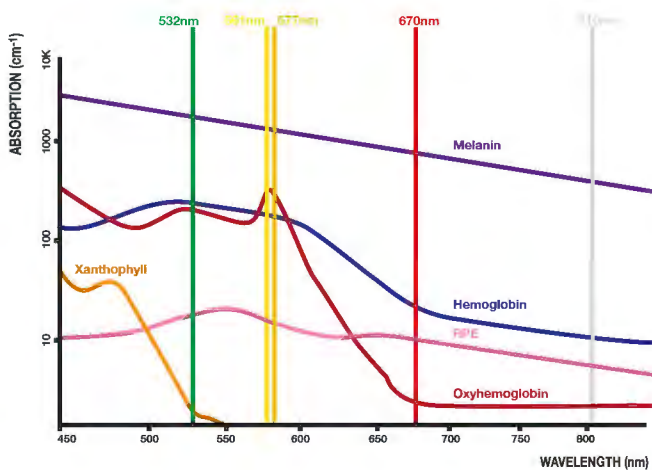


Designed for complete versatility and ultimate performance, LIGHTLas TruScan Pro V2.0 is the only laser in its class with a choice of four customizable wavelength options.

## Customizable Wavelength Options Enhance Your Investment

LIGHTLas TruScan Pro V2.0 is the only modular laser on the market that allows a physician to obtain the system in single-wavelength form and add up to 3 additional wavelengths in the future. Available wavelengths include green 532nm, yellow 561nm or 577nm, red 670nm and infrared 810nm.

*For a complete list of custom wavelength configurations, refer to back of the brochure.*



## Green 532nm — Proven to Withstand High-Activity Usage with Superior Long-Term Performance

- **Clinically Proven:** Ideal for a large variety of retinal conditions with melanin as the target chromophore
- **Immediate Visible Tissue Response:** Allows precise administration of laser power

## Yellow 561nm or 577nm — The Gold Standard in Laser Therapy

- **Accurate Targeting:** Selectively absorbed by melanin rich cells of RPE reducing retinal toxicity
- **Closer Approach:** Significantly increases the safety margins for macular treatment with immediate access to fovea when compared to other wavelengths
- **Reduced Power:** Typically requires 50% less power to achieve the same therapeutic effects as conventional green laser photocoagulation

## Red 670nm — Optimal for Choroidal Photocoagulation

- **Minimized Absorption:** Nominal hemoglobin absorption for exceptional penetration of moderate vitreous hemorrhage
- **Precise Application:** Preferable for selective treatment of choroidal vessels without coagulation of retinal vessel

## Infrared 810nm — Broad Range of Treatment Modalities

- **Deep Penetration:** Well absorbed by melanin and superior for excellent penetration into choroidal region
- **Patient Comfort:** The nearly invisible light in the infrared spectrum increases patient comfort
- **Treatment of Choice:** Used as laser of choice for Retinopathy of Prematurity (ROP), certain types of retinal lesions and in some cases of glaucoma

# CUSTOMIZABLE PATTERNS AND SPOT SIZES



LIGHTLas TruScan Pro V2.0 increases treatment speed, safety, and convenience with a large selection of scanning patterns. Enhance conventional treatment outcomes and your patients' comfort levels with the fastest scanning system on the market.

## Consistent Power and Control

- **Beneficial Features:** Continuous parfocal variable, clinically guided spot size controls, excellent optical design, dual port system and laser cavity technology assure the highest standards of energy density, speed and convenience
- **Range of Treatment Spot Sizes:** Easily adjust treatment patterns for shape spacing, 360 degree rotation, and separation varying from 50 µm to 1000 µm (100 µm to 500 µm in pattern scanning mode) for easy application of confluent shots



Position of scan patterns for simulation purposes only. Limited scanning patterns available at 100 µm. See technical specifications for details.

**Square** (2x2, 3x3, 4x4, 5x5)



**Circle**



**Triangle**



**Straight**



**Curve**



**Triple Curve**



**Double Arc** (Macular Grid)



**Triple Arc** (Macular Grid)



**Arc** (1/4 Circle)



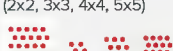
**Arc** (3/4 Circle)



**Arc** (1/2 Circle)



**Equal Square Spacing** (2x2, 3x3, 4x4, 5x5)



## Advanced LCD Touch Screen Interface

- **Built-In Patient Reporting:** After treatment, parameters are automatically logged into patient reports with an integrated computer to export patient information files
- **Fully Intuitive Platform:** Adjustable treatment parameters and functions, storage capability for preferred treatment settings, automated lens calculation and more



Ergonomic wheelchair accessible table

# SP-MODE™ MICROSECOND LASER TECHNOLOGY



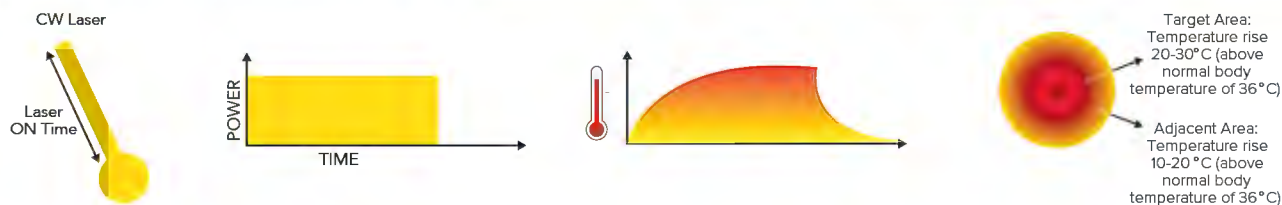
LIGHTLas TruScan Pro V2.0 optimizes patient outcomes with the use of traditional Continuous Wave (CW) and our exclusive next-generation SP-Mode™ Microsecond Laser Technology, included with any configuration.

## Reduce Thermal Damage with Ingenious Microsecond Laser Technology: SP-Mode™

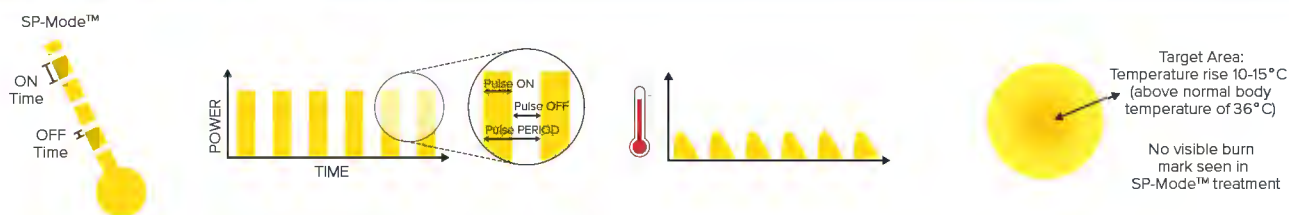
The latest innovation in LIGHTMED laser application, SP-Mode™ offers a revolutionary treatment approach to achieving optimal clinical outcomes. Ongoing studies show that physicians are now able to:

- 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 safe and repeatable treatment in retinal and glaucoma applications

### Conventional Continuous Wave (CW) Treatment



### SP-Mode™ Microsecond Laser Technology



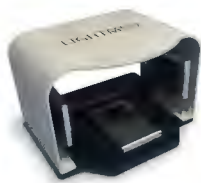
## Laser Trabeculoplasty with SP-Mode™ Reduces Intraocular Pressure in Open-Angle Glaucoma

SP-Mode™ Laser Trabeculoplasty (SPLT) allows significant advantages over traditional Argon Laser Trabeculoplasty (ALT) treatment with:

- **Selective Photothermolysis:** Targets specific cells leaving the surrounding tissue intact
- **Natural Mechanisms:** Stimulation of body's natural mechanisms to enhance outflow of fluid in the eye
- **Better Tolerance:** Nearly painless treatment when compared to ALT
- **Future Options:** Treatment can be repeated without causing harm or furthering complications

# SIMPLE INTEGRATION TO SUIT ALL PRACTICE REQUIREMENTS

Available with a choice of up to 4 customizable wavelengths, the LIGHTLas TruScan Pro V2.0 is designed for traditional use or highly specialized needs in all types of clinical settings. Its modular, compact and portable console helps meet and exceed treatment goals.



## Wireless Foot Pedal with Power Control

- **Ergonomically Designed:** Foot pedal allows hands-free operation for increased visual focus. A simple tap adjusts treatment power settings quickly and easily.



## TruLase Laser Indirect Ophthalmoscopes (LIO\*)

- **Precise Viewing:** Integrated single or multi-wavelength LIOs provide unique control of aperture size and spot positioning.



## Joystick for Optimal Precision

- **Accurate Results:** Integrated micro-joystick provides excellent fingertip control and accuracy of treatment spots and patterns to improve outcome and speed.



## Portable Remote Control Touchscreen\*

- **Easy Integration:** The console detaches easily for portable use in any room with LIGHTMED delivery devices, and includes a 7 inch remote control touchscreen for ultimate versatility.

## Integrated Heads Up Display (HUD)

- **Safer Treatment:** HUD is built into the pattern scanning slit lamp to ensure focus remains on the patient.

## Wide Range of Probes\*

- Endoprobes available in boxes of 5 as Straight or Angled for sizes 20G, 23G and 25G.
- G-Probe available in boxes of 5 as an additional glaucoma management device.

## Compact Mobile Cart\*

- **Uniquely Portable:** The laser console easily detaches for moving between rooms.



## 3D Mouse for Comfortable Control\*

- **Easy to Adjust Patterns:** Allows users to easily control and select desired patterns with functions including rotation, pattern group selection, spacing and radius.
- **Simple Touch to Adjust Parameters:** Allows users to adjust power, duration and interval settings

\* Optional accessories

## WAVELENGTH CONFIGURATION OPTIONS

### One Wavelength

Green - 532nm  
Yellow - 577nm

### Two Wavelength

Green/Yellow - 532nm/577nm  
Green/Yellow - 532nm/561nm  
Green/Red - 532nm/670nm  
Green/Infrared - 532nm/810nm  
Yellow/Red - 577nm/670nm  
Yellow/Infrared - 577nm/810nm

### Three Wavelength

Green/Yellow/Red - 532nm/577nm/670nm  
Green/Yellow/Red - 532nm/561nm/670nm  
Green/Yellow/Infrared - 532nm/561nm/810nm  
Green/Yellow/Infrared - 532nm/577nm/810nm  
Green/Red/Infrared - 532nm/670nm/810nm  
Yellow/Red/Infrared - 577nm/670nm/810nm

### Four Wavelength

Green/Yellow/Red/Infrared - 532nm/577nm/670nm/810nm  
Green/Yellow/Red/Infrared - 532nm/561nm/670nm/810nm

## TECHNICAL SPECIFICATIONS

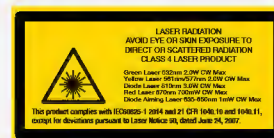
	GREEN 532nm	YELLOW 561nm or 577nm	RED 670nm	INFRARED 810nm
Power Output	2W (on Cornea)	2W (on Cornea)	0.7W (on Cornea)	3W (on Cornea)
Wavelength	532nm	561nm or 577nm	670nm	810nm
Mode of Operation	Continuous Wave			
Laser Type	532nm, 577nm: Optically Pumped Semiconductor Laser   561nm: Diode Pumped Solid-State Laser   670nm, 810nm: Diode Laser			
Exposure Duration	10 to 3000ms, continuously variable			
Repeat Interval	10 to 3000ms, and single			
SP-Mode™ Setting	SP-Mode™ Duty Cycle: 2.5% - 50% Duty Cycle Settings: 2.5%, 5%, 10%, 15%, 20%, 30%, 40%, 50%			
Pattern Scanning	Single, Straight, Square, Triangle, Circle, Arc, Curve and Equal Square Spacing			
Spot Size	Single Spot: 50-1000 µm Limited Scanning Patterns: 100 µm (only Straight, Square, Triangle, Equal Square Spacing) Scanning Patterns: 100, 200, 300, 400, 500 µm			
Safety Class	Class 4			
Aiming Laser	Red laser diode (635nm), under 1.0mW continuously variable			
Cooling System	Fan cooled and TEC's for Laser Diode and Crystal			
Dimensions	LIGHTLas TruScan Pro V2.0 Laser Console: 13 cm (H) x 40.5 cm (W) x 40 cm (D) Complete System on Table: 140 cm (H) x 92 cm (W) x 63 cm (D)			
Weight	LIGHTLas TruScan Pro V2.0 Laser Console: 88kg Complete System on Table: 130kg			

Green 532nm, Yellow 577nm and Infrared 810nm wavelengths are also available as a single spot photocoagulator with SP-Mode™ Microsecond Laser Technology.

LASER CONTACT LENSES: Ocular, Mainster 165 PRP (M = 1.96x) | Volk, Super Quad 160 (M = 2.00x) | Ocular, Latina SLT Gonio (M = 1.00x) | Ocular, Mainster Standard (M = 1.05x) | Ocular, Fundus Laser (M = 1.08x) | Ocular, Karichoff Laser (M = 1.08x) | Ocular, Three Mirror Universal (M = 1.08x) | Ocular, Mainster Wide Field (M = 1.50x) | Ocular, Mainster Ultra Field (M = 1.90x) | Rodenstock Schlegel Panfundoscope (M = 1.50x) | Volk, G-3 Goniofundus (M = 0.94x) | Volk, Area Centralis (M = 0.94x) | Volk, Trans Equator (M = 1.44x) | Volk, QuadrAspheric (M = 1.97x) | Volk, H-R Wide Field (M = 2.00x)

## Optional Accessories

- TruLase integrated LIO
- Mobile cart
- Endoprobes & G-probe
- 3D mouse
- 7" remote control touchscreen



Specifications are subject to change without notice. LIGHTMED devices are made strictly in accordance with the international laser safety regulations and standards: EN60601-1, EN60601-1-1-2, EN60601-2-22, IEC 60852-1, IEC 60852-1