# SIMPLE INTEGRATION TO SUITE ALL PRACTICE REQUIREMENTS

Available with a choice of single or dual wavelengths, LIGHTLas TruScan™ is designed for traditional use or highly specialized clinical needs in all types of clinical settings. Its dependable, user-friendly platform helps meet and exceed treatment goals.

## Ultimate Versatility

- **Easy Integration:** Works in combination with other LIGHTMED™ delivery devices, such as the TruLase™ Laser Indirect Ophthalmoscope (LIO), and ENO. The console detaches easily for portable use in the operating room, and includes a remote control for convenient use

## TruLase Laser Indirect Ophthalmoscope (LIO) Compatibility

- **Precise Viewing:** Integrated LIO provides unique controls of aperture size and spot positioning

## Intuitive Joystick Micromanipulator

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


## Wireless Foot Pedal With Power Control

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

## Premier Service

- **Best-In-Class Coverage:** Every LIGHTLas TruScan comes with the reassurance of the industry-leading warranty from LIGHTMED
- **Convenient Service:** Assure reduced product downtime with multiple service centers across the US for quick maintenance or in-office repair

## Technical Specifications

| Model | Yellow 577 | Infrared 810 | Red 670 | Green 532 |
|---|---|---|---|---|
| Power output (on cornea) | 2 W | 3 W | 700 mW | 2 W |
| Wavelength | 577 nm (yellow) | 810 nm (infrared) | 670 nm (red) | 532 nm (green) |
| Laser type | Optically pumped dual diode solid state and SP-Mode™ | | | |
| Mode of operation | Optically pumped dual diode solid state true continuous wave (CW) and SP-Mode | | | |
| Safety classification | Class 4 | | | |
| Exposure duration | 0.01 – 3.0 seconds, continuously variable | | | |
| Repeat interval | 0.01 – 3.0 seconds and single | | | |
| Sub-threshold (SP-Mode) settings (disengaged in 670 nm mode) | • Duration: 150 µs – 600 µs (in 50 µs increments)<br>• Duty cycle: 5% – 30% (in 2.5% increments)<br>• Period: 1400 µs – 1850 µs (in 50 µs increments) | | | |
| Pattern scanning | • Single, line, square (2x2, 3x3, 4x4, 5x5), macular arc (single, double, triple, ¼, ½, ¾)<br>• Circle and triangle – spot width, density, and 360° rotation available for each pattern | | | |
| Spot size | • Single spot: continuously variable 50 µm – 1000 µm<br>• Scanning patterns: continuously variable 100 µm – 500 µm | | | |
| Aiming beam | Laser diode 635 nm ~ 650 nm (red), 0.1 – 1.0 mW continuously variable | | | |
| Cooling system | Fan cooled and TECs for laser diode and crystal | | | |
| Dimensions | LIGHTLas TruScan™ console: 12 cm (H) x 38 cm (W) x 40 cm (D)<br>LIGHTLas TruScan on trolley: 90 cm (H) x 45 cm (W) x 46 cm (D)<br>Complete system on table: 75 cm (H) x 120 cm (W) x 42 cm (D) | | | |
| Weight | LIGHTLas TruScan console: 10 kg, 22.0 lbs.<br>LIGHTLas TruScan on trolley: 72 kg, 158.7 lbs.<br>Complete system on table: 92 kg, 202.8 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, EN60601-1-1-2, EN60601-2-22, IEC 60852-1, IEC 60852-1, NBR DCA65001

## Optional Accessories

- TruLase™ integrated LIO
- Mobile cart
- Endoprobes & G-probe
- Remote control
- Power control, wireless foot pedal

FDA CE 0434



*Green 532 nm, yellow 577 nm, and infrared 810 nm wavelengths are also available as a single spot photocoagulator with sub-threshold technology (SP-Mode). The green 532 nm is available with a 4.0 W cavity for ENT applications.

LIGHTMED
*Enlightening Vision*



LIGHTMED
*Enlightening Vision*

THE INNOVATIVE MULTI-WAVELENGTH PATTERN SCANNING LASER

# LIGHTLas TruScan™

PATTERN SCANNING PHOTOCOAGULATOR
*WITH SP-Mode™*

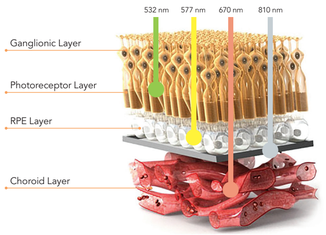
# SUPERIOR PERFORMANCE IN FOUR WAVELENGTHS


Designed for complete versatility and ultimate performance, LIGHTLas TruScan™ is the only laser in its class with a choice of four customizable wavelength options in single or dual configurations.

## Customizable Wavelength Options Enhance Your Investment

LIGHTLas TruScan is also the only laser on the market that allows a physician to obtain the system in single-wavelength form and add an additional wavelength of choice in the future. Available wavelength configurations include:*

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




## Green 532 nm — *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
- **Accurate Targeting:** Pinpoints melanin rich cells of RPE in clear ocular media
- **Immediate Visible Tissue Response:** Allows precise administration of laser power

## True Yellow 577 nm — *The New Gold Standard In Laser Therapy*

- **Absolute Control:** Provides low light scattering in intraocular transit for increased accuracy
- **Reduced Power:** Typically requires 50% less power to achieve the same therapeutic effects as conventional green laser photocoagulation
- **Closer Approach:** Significantly increases the safety margins for macular treatment with immediate access to fovea when compared to 532 nm, 514 nm, or 561 nm/586 nm lasers
- **Minimized Thermal Damage:** Decreased thermal spread to reduce damage

## Red 670 nm — *Optimal For Choroidal Photocoagulation*

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

## Infrared 810 nm — *The Standard For ROP And Transscleral Cyclophotocoagulation*

- **Excellent Alternative:** A better option than deep choroid penetration
- **Great Scleral Penetration:** Ideal for transscleral cyclophotocoagulation with Dio Pexy Probe and refractory glaucoma treatment with G-probe

# CUSTOMIZABLE PATTERNS AND SPOT SIZES

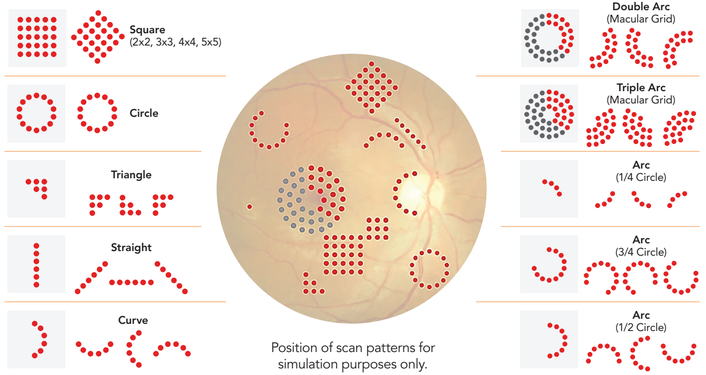
LIGHTLas TruScan™ increases treatment speed, safety, and convenience with a large selection of scanning patterns. Enhance conventional treatment outcomes and your patient's comfort levels with this outstanding pattern scanning laser system.

## Advanced LCD Touch Screen Interface

- **Fully Intuitive Platform:** Adjustable treatment parameters and functions, preferred treatment settings storage, language choices, built-in patient database storage capability, built-in user manuals, and easily upgradeable

## Consistent Power And Control

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




Position of scan patterns for simulation purposes only.

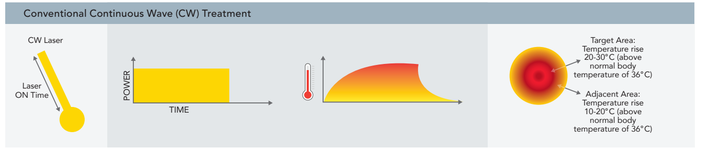
# NEXT-GENERATION OPTIONS

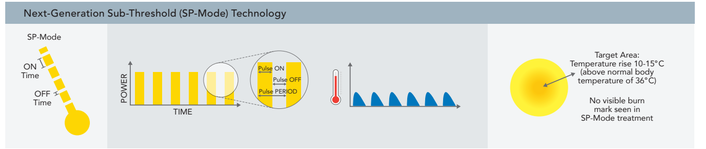
In addition to delivering clinically superior performance, LIGHTLas TruScan™ can help optimize patient outcomes with the use of traditional continuous wave or our exclusive next-generation SP-Mode™ (sub-threshold technology).

## Reduce Thermal Damage With Ingenious Sub-Threshold Laser Therapy: SP-Mode

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 be 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




## Laser Trabeculoplasty With SP-Mode Reduces Intraocular Pressure In Open-Angle Glaucoma

SP-Mode 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:** Painless treatment and no associated systemic side effects when compared to ALT
- **Future Options:** Treatment can be repeated without causing harm or furthering complications