FIRELAS DUO

Blue Laser ENT Surgery System

DUAL WAVELENGTH SURGICAL LASER

450nm Blue Laser + 980nm Infrared Surgical System

ENT | GYNAECOLOGY | UROLOGY | SURGERY

THE NEXT GENERATION OF BLUE LASER SURGERY

More Applications, Greater Possibilities, Maximum Versatility

REQUEST A LIVE DEMONSTRATION
AND EXPERIENCE THE DIFFERENCE
IN YOUR OWN THEATRE.

FIRELAS DUO

Blue Laser ENT Surgical Platform

- Multi Wavelength Surgical Laser
- Simultaneous Vaporisation & Ablation
- Best Coagulation For Bloodless Surgery

450nm + 980nm @ 22W

RED AIMING BEAM

SMART SURGICAL LASER

Experience the future of surgical technology with the FireLas Duo, the ultimate all-in-one laser system. This groundbreaking innovation combines tissue vaporisation and ablation into one seamless process, all through a single fiber. As a pioneer in medical laser advancements, the FireLas Duo represents the pinnacle of laser technology evolution.

Harnessing the power of CO2 contactless surgery and KTP with unmatched haemoglobin absorption, the FireLas Duo brings science, innovation, and connectivity together with an elegant touch. It offers the most efficient surgical pathway available today, ensuring superior results with every use.

With enhanced capabilities compared to its predecessors and offered at a fraction of the cost of competitors, the FireLas Duo delivers unparalleled value. By blending monochromatic blue light, which is highly absorbed by haemoglobin, with infrared light absorbed by water, it allows precise wavelength adjustments for optimal outcomes every time. This ensures both cost and power efficiency, making the FireLas Duo perfect for both the operating theatre and the office.

Renowned for its excellence in coagulation and minimal necrosis zones, this lightweight and silent powerhouse delivers outstanding results. Coupled with the latest advancements in fiber optics, it revolutionises flexible endoscopy, granting access to areas within the human body previously unreachable by hand or scalpel.

4kg

Portable | Multi-Wavelength | Connected

Laryngology

Papilloma
Leukoplakia, Biofilm
Reinke's Edema
Capillary Ectasia
Polyps
Dysplasia
Partial Larynx Resection
Treatment of Stenosis
Microsurgical cutting

Rhinology

Synechia
Bleeding
Morbus Osler
Epistaxis
Cutting
Coagulating
Turbinates
Polyps
Septum Spur

Enjoy effortless control with our high-definition retina touch screen, designed for intuitive preset management. The straightforward guide empowers operators to make quick adjustments on demand, ensuring a seamless and efficient experience.

FIRELAS DUO

Blue Laser ENT Surgical Platform

- True Modular System For Better Control
- Significantly Reduced Costs
- Portable Design

FUTURE PROOFING CONCEPTS OF YESTERYEAR

Re imagining the past

Many legacy systems rely on modular units - an approach that can add complexity, cost, and setup time in today's surgical environments. While widely used, this approach can introduce additional complexity in modern surgical environments. Such systems require separate fibers, significantly increasing costs by necessitating the purchase of multiple lasers. These expenses can quickly spiral out of control, straining budgets.

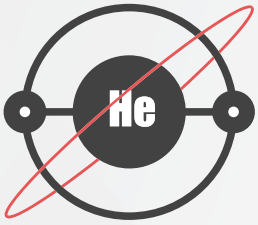
In a landscape where financial efficiency is crucial and healthcare systems are under pressure, the demand for cost-effective solutions is louder than ever. Enter the FireLas Duo. This innovative system delivers multiple wavelengths through a single fiber, all from a stable platform. Each wavelength can be adjusted individually or in unison, ensuring perfect results every time. The FireLas Duo is the smart choice for modern medical practices seeking the right balance of performance and cost.

TRADITIONAL MODULAR BLUE LASER SYSTEMS

The need to purchase separate systems for combined wavelengths is now obsolete. Say goodbye to the outdated concept of integrating individual single wavelength lasers - a decades-old solution that no longer meets the demands of modern 21st-century surgical practices and hospital budgets.

THE ALL-IN-ONE DUAL WAVELENGTH ALTERNATIVE

Why settle for limits? FireLas Duo delivers 22W of combined power. 7W at 450nm and 15W at 980nm in continuous mode! No helium. No cooling units. No bulky peripherals. Just clean, uninterrupted energy from a compact system engineered for precision, flexibility, fewer dependencies - better outcomes.



BREACHING LIMITS OF LEADING LASER SYSTEMS

Experience unparalleled efficiency with the FireLas Duo. Some systems rely on helium cooling and max out at just 4W continuous output. FireLas Duo removes those limitations entirely. Delivering up to 7W in continuous mode - a 75% increase over standard blue laser systems. This powerhouse eliminates the need for bulky, heavy equipment. Enhance your surgical capabilities and reduce costs with the FireLas Duo, the next step in advanced medical technology.

FIRELAS DUO

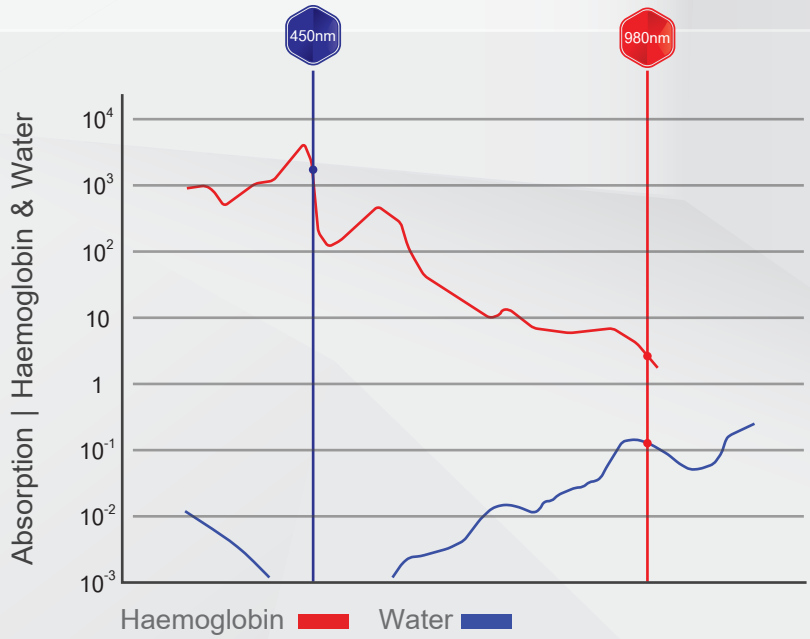
Blue Laser ENT Surgical Platform

- Integrated cooling system
- Reduced Operative And Post Operative Complications
- Improved Overall Outcomes

ADVANCED LASER TECHNOLOGY - WAVELENGTH VERSATILITY

FireLas Duo operates at multiple wavelengths, including 450nm, 980nm (and if required - 1064nm, 1470nm) ensuring optimal tissue interaction for various ENT procedures. Each wavelength has specific tissue interaction properties that can be utilised to optimise surgical outcomes. By incorporating blue laser technology, surgeons can achieve better control, reduced operative and postoperative complications, and improved overall outcomes, making it a preferred choice in various medical fields.

An enhanced safety feature is the integrated Cooling System that prevents overheating, protecting both the patient and the device. The ability to individually adjust power settings allows surgeons to tailor the laser's intensity for different procedures and tissue types, enhancing control and safety.

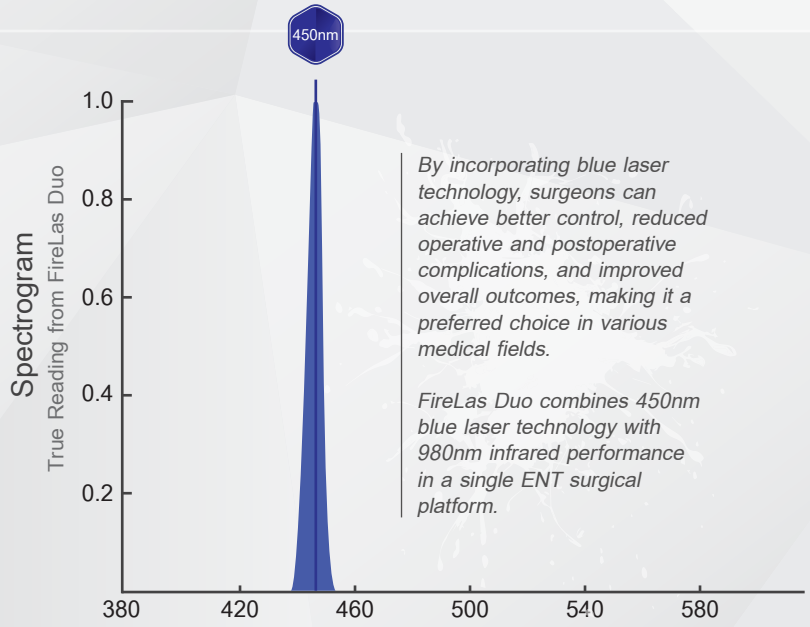


DUAL WAVELENGTHS

FireLas Duo is the advanced dual wavelength medical tool that uses multiple wavelengths of laser light to enhance surgical precision and surgical outcomes.

450nm: highly absorbed by haemoglobin and melanin, providing superior precision in cutting and coagulating tissues.

980nm: This wavelength is absorbed well by water and haemoglobin, making it suitable for cutting and coagulating soft tissues.



WAVELENGTH STABILITY

Fluctuations in wavelength can lead to variations in how the laser interacts with tissue, potentially causing unintended damage or ineffective treatment. Stable wavelengths help maintain the safety profile of the laser, protecting both the patient and the practitioner.

Wavelength stability ensures that the laser operates efficiently, with energy being used optimally for the desired therapeutic effect. This reduces the need for higher power settings, which can prolong the life of the laser equipment and lower operational costs.

FIRELAS DUO

Blue Laser ENT Surgical Platform

- Intuitive Touchscreen
- Automatic Calibration
- Minimally Invasive

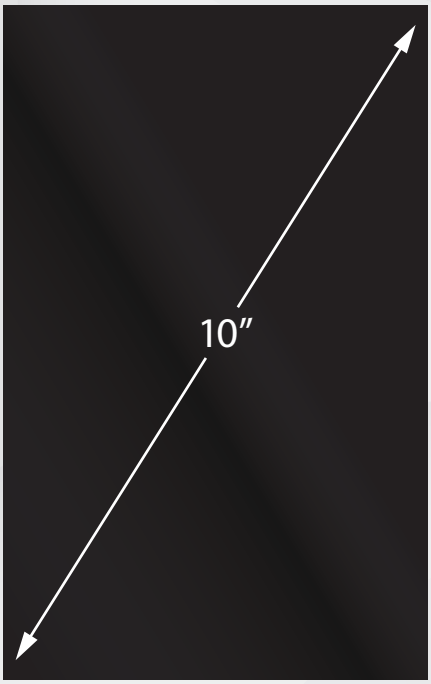
INTUITIVE ACCESSIBILITY & FLOW

Smart Precise Results

The large, colour touchscreen interface simplifies operation, allowing for quick adjustments and easy monitoring during procedures. Benefit from pre-programmed settings for common ENT treatments, streamlining workflow and reducing setup time with 20 second boot time.

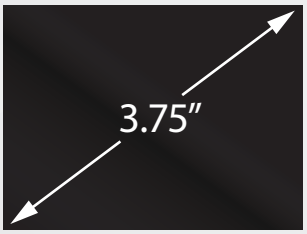
Automatic Calibration ensures consistent performance and safety with each use providing continuous monitoring of laser parameters, alerting the practitioner/operator to any deviations with real-time feedback.

The FireLas Duo Laser is at the forefront of medical technology, offering precision, efficiency, and safety for a wide range of ENT (Ear, Nose, and Throat) applications. This cutting-edge device is designed to meet the demanding needs of modern otolaryngology, providing unparalleled results in surgical and therapeutic treatments.



325%

Featuring a screen that’s over 3× larger than most single-wavelength systems - making operation easier, even in fast-paced theatre environments.



EVOLVE WITH FIRELAS DUO: THEN VS NOW

Modern problems demand modern solutions! Say goodbye to overcomplicated, overpriced stacks.

FireLas Duo combines power, precision, and portability - without compromise.

No warm-up delays. Unlike older-generation systems that may fail to start reliably in cold operating conditions, FireLas Duo is engineered for seamless operation - even in low ambient temperatures. Just plug in and go. Always ready, when you are.

FEATURE	MODULAR SYSTEMS	FIRELAS DUO
Devices	2-3 separate units	1 all-in-one unit
Fiber	Multiple	Single fiber
Power Output	Limited (often 4W)	7W (450nm) + 15W (980nm)
Setup	Manual switching	Seamless intuitive presets
Portability	Requires rack	Lightweight

Laser Wavelength	450nm (7W) + 980nm (15W)	Display • Control	HD Colour touchscreen
Output Power (total)	22W	Aiming Beam	Red, power <5mW, adjustable
Fiber Connection	SMA - 200, 300, 400µm	Operating Modes	CW • Pulsed • Single
Cooling	Air	Pulse Width	25 µs-900ms
Weight	4.5 kg	Dimensions	250(W)*130(L)*240(H)mm
Power Requirements	~100-240V, 50-60Hz, 350VA	Safety Compliance	CE

FIRELAS DUO

Blue Laser ENT Surgical Platform

ACCESSORIES

Eye Safety & Protection

Protect your eyes during surgery without compromise with high transmittance safety filters compatible with Zeiss and Leica microscopes.

Eye Safety Filter - Microscope

Wavelength	Blue 450nm + 980nm
Microscope	Zeiss | Leica
Light Transmittance	93%
Optical Density	5+

Eye Safety Filter - Laparoscope

Wavelength	Blue 450nm + 980nm
Laparoscope	Pentax/Stryker/Olympus
Light Transmittance	93%
Optical Density	5+

Eye Safety Laser Goggles

Wavelength	Blue 450nm + 980nm
Light Transmittance	35%
Optical Density	7+

Fiber Optics

Precise, minimally invasive solutions for treatment. Enhancing patient care with advanced targeted therapies.

NOTE:
Alternate fiber diameters available on request.

SMA Bare Fiber

Diameter	200µm | 300µm | 400µm

alternate diameter sizes available on request

SMA Fiber With Handpiece

Diameter	300µm | alternate diameter sizes available on request

Accessories

Elevate your surgery with accessories to add a touch of functionality. Specialised tools to meet the highest standards for every step of your journey.

Cart for FireLas Duo

Suitable for FireLas Duo | FireLas Duo and M2 Green

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