

integrepro™

all-in-one laser/slit lamp photocoagulator

The first all-in-one laser/slit lamp photocoagulator to offer custom configuration of yellow, red and green wavelengths.



ALL-IN-ONE LASER/SLIT LAMP PHOTOCOAGULATOR

The Integre Pro™ is the first all-in-one laser/slit lamp photocoagulator to offer custom configuration of yellow, red or green wavelengths. This advanced laser platform allows you to choose from yellow-red, green-red, yellow or green wavelength configurations in order to best meet your clinical requirements – maximizing treatment flexibility and ensuring effective patient results.

Designed for consistent and repeatable treatment performance, the Integre Pro's fully integrated design ensures more stable and consistent energy delivery – and offers the added benefit of patient comfort and ease of operation.

In addition, the integration of the treatment laser and diagnostic slit lamp into one slimline platform ensures the Integre Pro™ provides a high-resolution image with a wider peripheral view, optimum illumination of the fundus and better depth perception – making it the best system for the diagnosis and treatment of retinal disease.



integrepro™

Clinical Versatility: with the Integre Pro™ you can select from a number of wavelength configurations in order to best meet your clinical requirements, optimizing patient results.



561nm yellow and 670nm red



561nm yellow



532nm green and 670nm red



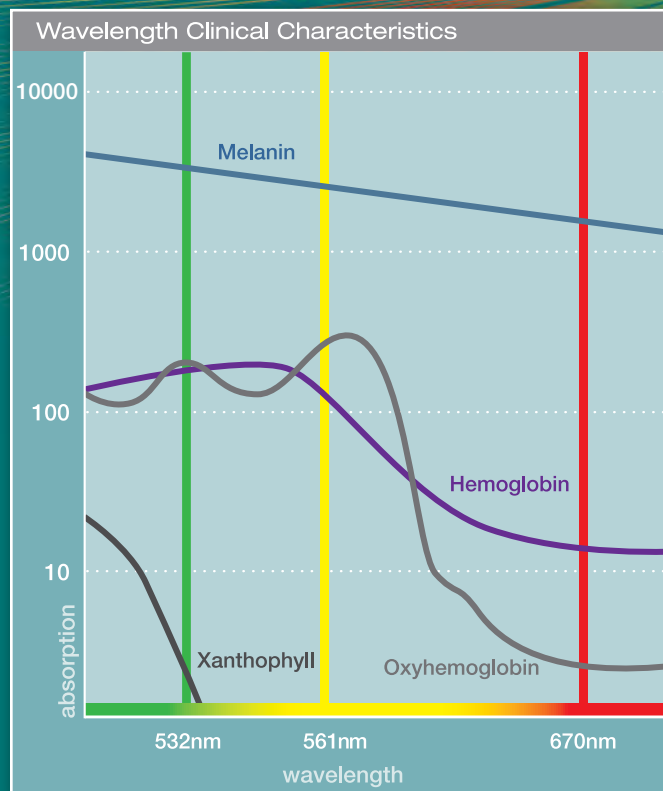
532nm green

561nm Yellow: maximal absorption in hemoglobin with zero or negligible absorption in macular xanthophyll. The 561nm yellow wavelength creates a more predictable, controlled burn, which provides for better control over the laser-tissue interaction. Because it approximates the peak absorption of hemoglobin, but it is not highly absorbed by melanin in the retinal pigment epithelium (RPE) or xanthophyll in the neurosensory retina, 561nm yellow is ideal for treatments in and around the macula. It also produces less scatter, which means superior transmission through existing opacities. In addition, treatment is more efficient at lower energy levels, creating significantly less discomfort for the patient during and following treatment.

670nm Red: deep, gentle penetration for effective treatment of choroidal vessels.

The 670nm wavelength features low absorption of hemoglobin, improving its transmission through minor pre-retinal, sub-retinal or intra-retinal hemorrhage. In addition, its penetration depth is ideal for selectively treating choroidal vessels, without coagulation of retinal vessels. 670nm offers less scatter than the yellow wavelength, making it ideal for transmission through a cloudy cornea or lens. The results are gentle, deep retinal tissue penetration and effective treatment of choroidal vessels.

532nm Green: the standard of care for common procedures, such as retinal photocoagulation, laser trabeculoplasty and iridotomy. The 532nm wavelength is primarily absorbed by melanin cells, and is ideally suited for treatment applications in and around the retinal pigment epithelium (RPE) region, including pan-retinal photocoagulation (PRP).



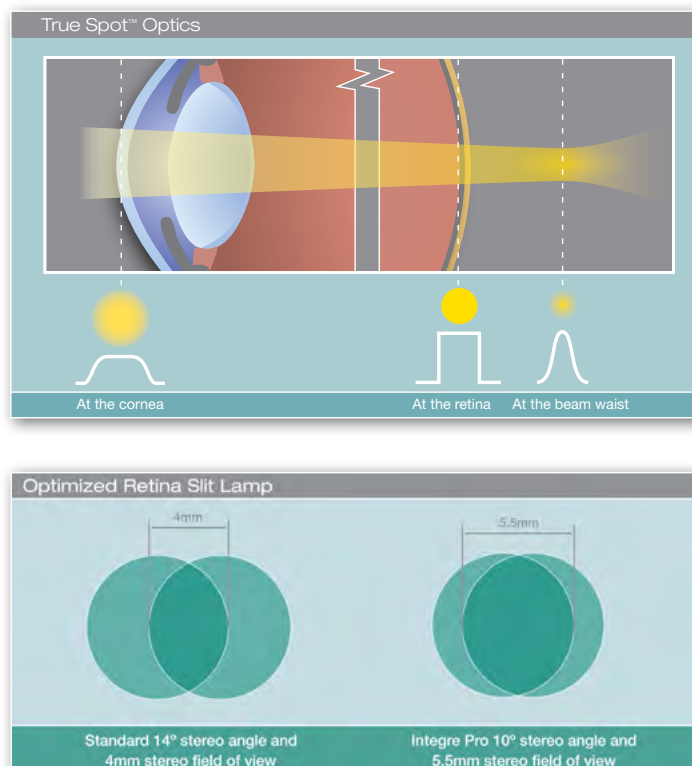
Integre Pro™ Features and Benefits

Better Diagnosis and Treatment All in One

The purpose-built Integre Pro™ slit lamp provides high-precision optics matched for optimum laser performance – creating the industry's leading system for the diagnosis and treatment of retinal disease.

Featuring a 10-degree stereoscopic angle, the Integre Pro™ provides better depth perception and a wider peripheral view, combined with high-contrast imaging and optimal illumination of the fundus.

In addition, the system's True Spot™ optical system offers a uniform, sharp-edged top-hat beam on the retina with the added benefit of low power density at the cornea.



Greater Efficiency at the Touch of a Button

The Integre Pro's yellow-red and green-red wavelength configurations deliver the full treatment spectrum of traditional multi-color lasers – and all at the touch of a button. Switch easily between wavelengths for seamless retinal treatments, allowing you to perform multiple procedures in one setting: target localized pathologies with short laser shots, homogeneously distribute the laser energy over a large area for controlled applications in single shot mode, or quickly and efficiently apply the laser energy in repeat mode.

Fundamentally Better

Designed to make photocoagulation procedures as efficient as possible, the Integre Pro™ incorporates a unique single pump, solid-state dual-mode laser cavity design. This innovative cavity design provides stable, high-power output for the most demanding of ophthalmic procedures.

Designed to Maximize Your Workflow

The Integre Pro™ is built on Ellex's unique, integrated laser/slit lamp design, enabling the laser to be channeled directly through the slit lamp optics. This fully integrated, ergonomic design provides you with additional working space – making it easier to align the patient and to position the contact lens. It also offers the added benefit of convenient access to the ambidextrous laser controls and allows you to perform treatment without disturbing your view of the retina/treatment area.

Unlike other photocoagulator and multi-color laser systems, which require an external dichroic or fixed mirror in order to connect the laser to the slit lamp, the Integre Pro™ integrates the laser delivery optics inside the slit lamp, ensuring the laser beam is perfectly coaxial with your line of vision. This provides better visualization and optimal illumination.

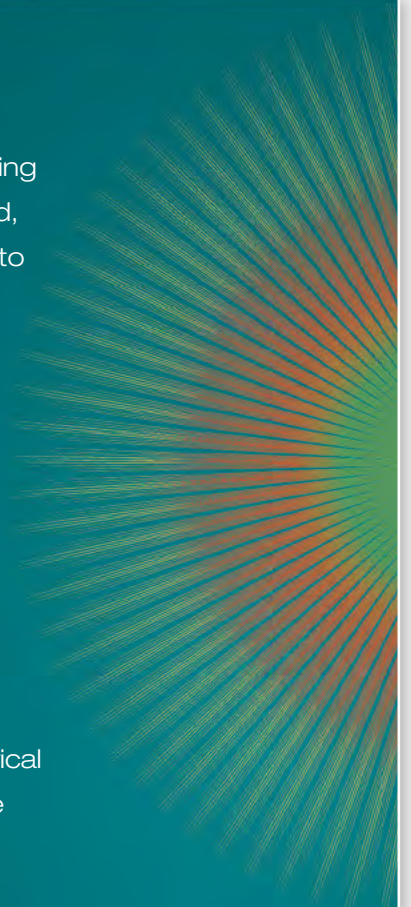
In addition, this integration of the treatment laser with the diagnostic slit lamp minimizes system downtime, because there are no exposed fiber-optic or electrical cables to accidentally damage. It also eliminates the need for you to calibrate the system, or to reposition cables or adapters – simply aim, shoot and fire.

Control at Your Fingertips

The Integre Pro™ features a high-precision micromanipulator that allows you to accurately perform grid treatments near the macula, whilst exquisite titration control offers optimal flexibility and accuracy when treating in areas of varied retinal pigmentation.

Maximize Your Investment

The Integre Pro™ provides an affordable alternative to the traditional multi-color laser. It also has an upgrade path to the red-green and red-yellow configurations, enabling you to add an additional wavelength capability as your practice and clinical requirements grow.





One Powerful Vision

Accessories and Options

Power Control™ Footswitch

(optional accessory)

Adjust critical treatment parameters while maintaining hands-on control of the slit lamp – without disturbing your view of the retina.



Laser Indirect Ophthalmoscope (LIO)

(optional accessory)

This lightweight-design LIO is based on the Heine Omega 180 binocular indirect ophthalmoscope, with coaxial laser beam and illumination. The Integre Pro's dual port configuration allows for instant switching between the LIO and slit lamp without the need to disconnect and reconnect fibers.



Total Solution™ Tables

(optional accessory)

Configured to meet your needs, the Integre Pro™ can be combined with the Total Solution™ table range in order to meet the needs of ophthalmic offices, ambulatory surgery centers and hospital outpatient clinics.



High-Visibility Eye Safety Filter

The eye safety filter features a custom high-quality coating that ensures a clear, color-balanced view while ensuring optimal/safe protection from the treatment beam.

Indications for use

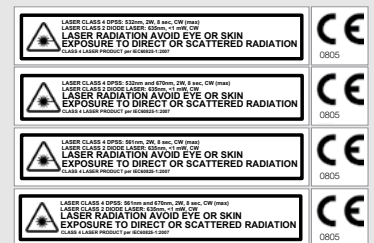
Retina	Retinal Photocoagulation
Glaucoma	Laser Trabeculoplasty
	Laser Iridotomy

Product Specifications

Laser Source	solid state laser diode and cavity
Wavelengths	red: 670 nm, yellow: 561 nm, green: 532 nm
Power at the Fiber Port	red: ≥ 1.35 watts, yellow: ≥ 2 watts, green: ≥ 2 watts
Power at the Cornea	red: 1 watt, yellow: 1.5 watts, green: 1.5 watts
Exposure Time	0.01 to 8.0 seconds
Spot Size	50 to 1000 µm, continuously variable
Repeat Mode	up to 20 hertz
Aiming Beam	red 635nm, adjustable intensity
Micromanipulator	ambidextrous, vibration damped
Magnification	6x, 10x, 16x, 25x, 40x
Electrical Requirements	100–240 VAC, 50/60 Hz, 800 VA
Cooling	air cooled
Weight	35kg, 77 lbs. (as shown)
Dimensions (HxWxD)	62 x 76 x 47 cm, 24 x 30 x 19 inches (laser only)
Standard Accessories	footswitch, remote control, safety glasses, laser safety sign, dust cover, motorized safety filter
Optional Accessories	Total Solution™ tables, LIO, Power Control™ footswitch, beam splitter, co-observation tube, 35mm camera adapter, video camera adapter, tonometer mount, photocoagulation laser lenses

Specifications are subject to change without notice.

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