integre pro

Laser Range





Retinal Photocoagulation

integre pro Laser range

2 PHOTOCOAGULATION MODES

Integre® Pro laser range includes an extensive range of fully integrated systems, offering a wide array of parameters, tailored to the treatment of retinal pathologies.

integre **pro**

SingleSpot technology



ıntegre **pro scan**

Pattern scanning technology





All controls — spot size, power, shot duration and micromanipulator — are conveniently located, right at your fingertips.

SINGLE OR DUAL-WAVELENGTH LASER

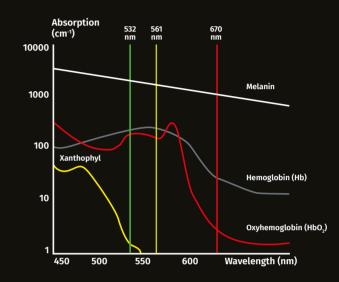
Whether positioning focal treatment in the macular area, or performing PRP in the periphery, Integre® Pro lasers provide a comprehensive wavelength choice to treat a wide range of retinal conditions. [5]

The following wavelength configurations are available:

GREEN CONFIGURATION (532 nm)

YELLOW CONFIGURATION (561 nm)

YELLOW-RED CONFIGURATION (561 nm and 670 nm)



UNIFORM ENERGY DISTRIBUTION

Integre® Pro's proprietary dual-mode laser cavity delivers uniform energy distribution across the full spot diameter, eliminating hotspots and achieving optimal, homogenous burns*

Whether you are positioning focal treatment in the macular area, or performing PRP in the periphery, it's a key design feature that enables you to achieve consistent, predictable treatment outcomes across a broad range of pathologies.

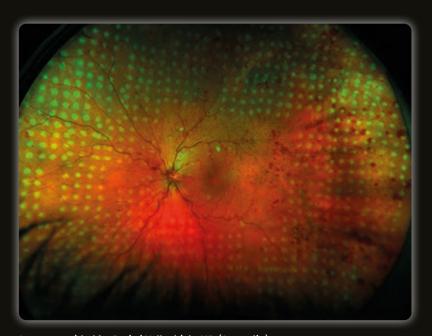


Image provided by Dmitri Yellachich, MD (Australia)

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SingleSpot technology

Characterized by the use of long pulse durations (100-200ms), Integre® Pro offers customizable shooting modes for the implementation of thermal treatments such as leaking blood vessels sealing (focal laser photocoagulation): Single, repeat, continuous, etc.

Integre proscan



Pattern Scanning technology

Characterized by the use of short pulse durations (10-20ms), Integre® Pro Scan offers many advantages over conventional photocoagulation in retinal treatments such as panretinal photocoagulation (PRP):

- Less heat diffusion to the retina and choroid, less damage to the retinal nerve fiber layer [1,2]
- Comfortable treatment is better tolerated by patients [3]
- Extremely fast treatment (full PRP in 1 session) [4].

The treatment mode can be delivered through customizable patterns for better adaptation to the treatment site:







Rectangle Square





Triangle





Double etc

DESIGNED WITH YOU IN MIND

Highly intuitive tablet and all-in-one laser/slit lamp interface that's been designed exactly with your needs in mind.

User-friendly touchscreen interface means you can adjust all treatment parameters, including laser power, pulse duration, pattern selection and pattern size quickly and easily.



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Laser Range

TECHNICAL SPECIFICATIONS

Laser Source Solid-state laser diode and cavity

Wavelength 1 Yellow-red configuration: 561 nm and 670 nm

2 Yellow configuration: 561 nm 3 Green configuration: 532 nm

Power at the fiber port Red: 1 watt. Yellow: 1.5 watts. Green: 1.5 watts

Power at the cornea Red: 50 - 1000 mW, Yellow: 50 - 1500 mW, Green: 50- 1500 mW

Aiming Beam Red 635 nm, adjustable intensity

Magnification 6x, 10x, 16x, 25x, 40x

Electrical Requirements 100-240 VAC, 50/60 Hz, 800 VA

Cooling Air cooled

	Integre® Pro	Integre® Pro Scan
Exposure Time	10 ms to 8.0 s	Pattern Scanning mode: 10 to 30 ms SingleSpot mode: 10 ms to 8.0 s
Spot Size	50 to 1000 μm, continuously variable	Pattern Scanning mode: 100 to 500 μm, continuously variable SingleSpot mode: 50 to 1000 μm, continuously variable
Repeat Mode	50 ms to 1.0 s	Pattern Scanning mode: N/A, SingleSpot mode: 50 ms to 1.0 s
Weight	32kg, 71 lbs. (laser only)	35kg, 77 lbs. (laser only)
Dimensions (HxWxD)	62 x 76 x 47 cm, 24 x 30 x 19 inches (laser only)	62 x 76 x 47 cm, 24 x 30 x 19 inches (laser only)

Specifications are subject to change without notice. Non contractual pictures. © 2024, Lumibird Medical.

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RIRI IOGRAPHY

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- 2- Yi-Ryeung Park, Donghyun Jee. Changes in Peripapillary Retinal Nerve Fiber Layer Thickness after Pattern Scanning Laser Photocoagulation in Patients with Diabetic Retinopathy. Korean J Ophthalmol 2014;28(3):220-225.
- 3- Hussainy S Al, Dodson PM and Gibson JM. Pain response and follow-up of patients undergoing panretinal laser photocoagulation with reduced exposure times. Eye. 2008; 22, 96–99
- 4- Muqit MM, Marcellino GR, Henson DB et al. Single-Session vs Multiple-Session Pattern Scanning Laser Panretinal Photocoagulation in Proliferative Diabetic Retinopathy. Arch Ophthalmo. 2010;128(5):525-533
- 5- Mainster MA. Wavelength selection in macular photocoagulation. Tissue optics, thermal effects, and laser systems. Ophthalmology.1986;93:952-958.



LASER CLASS 4
Nd:DPSS 532nm, 2W, 8s, CW (max)
Nd:DPSS 561nm, 2W, 8s, CW (max)
Nd:DPSS 670nm, 1.35W, 8s, CW (max)

LASER CLASS 2 Diode laser: 635nm, <1mW, CW

DANGER – LASER RADIATION AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION

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Manufacturer

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