

rapide™

pattern scanning photocoagulator



Rapide™ delivers precise and consistently better performance in the treatment of retinal disease. It is also the industry's fastest pattern scanning photocoagulator, allowing you to perform PRP treatment in a matter of minutes.

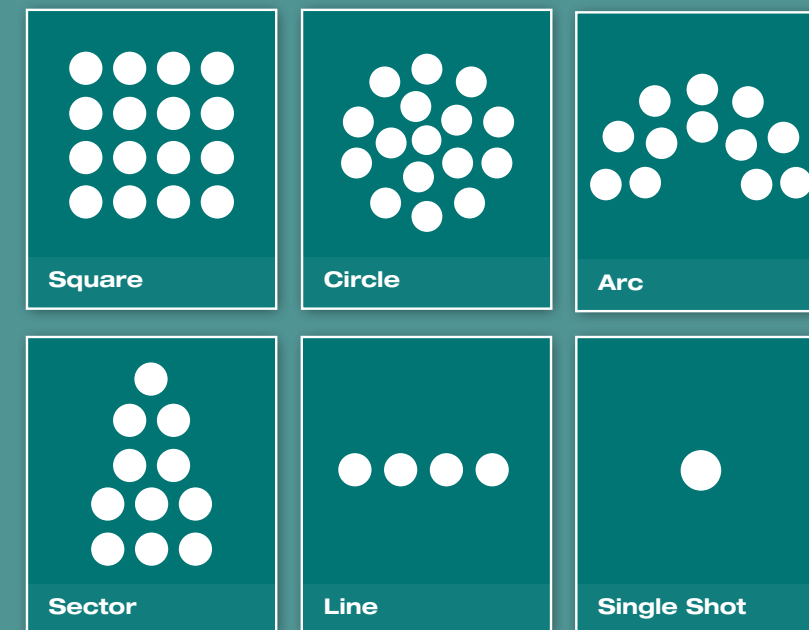
**Fast. Deliver up to
25 shots in just half
a second.**

The industry's fastest pattern scanning photocoagulator, Rapide™ enables you to deliver a pattern of up to 25 laser shots in just 0.5 seconds. Featuring the latest generation of pattern scanning laser technology, with Rapide™ you can achieve 2000 laser shots during PRP treatment in less than 7 minutes - including the time required to prepare the patient.

A Pattern for Every Pathology

Whether accurately positioning focal treatment in the macular area, or “painting” large areas of the periphery during PRP treatment, Rapide™ offers a multitude of patterns and pattern variations. All patterns are available in a number of size options and can be fully rotated 360 degrees for optimum treatment flexibility. There is also an option to set the pattern as an outline in aiming beam mode, allowing you to observe the laser tissue effect during treatment. To ensure precise pattern delivery, Rapide’s computer-

controlled operation safeguards against shape inconsistencies: it guarantees consistency in the shape of laser spots and patterns. Each pattern size is limited to 6000 microns in diameter to facilitate correct focusing in accordance with the curvature of the eye, while a maximum pattern duration of 750 ms ensures the patient does not move during pattern delivery. Rapide™ also allows you to perform treatment in single-shot mode, enabling quick and easy adjustment in order to cater for variation in pigmentation.



1 Precise Treatment. Fast.

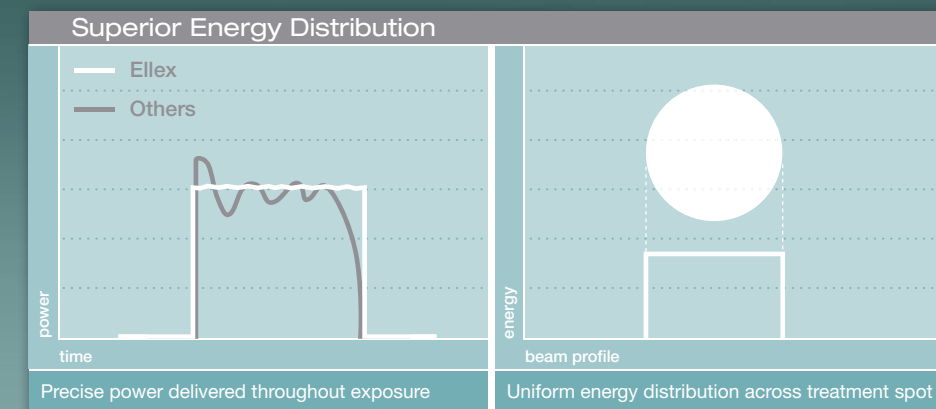
With the latest generation of pattern scanning laser technology, retinal treatments such as PRP are now faster – and more accurate – than ever before. Equipped with two high-precision, high-speed galvanometers scanning at 4 KHz, Rapide™ allows you to deliver a pattern of up to 25 laser shots in just 0.5 seconds. And with a maximum of 1 millisecond between laser shots, PRP treatment can be performed in a matter of minutes.

2 Smart, Intuitive Operation

With Rapide™, treatment set-up is simple and intuitive: simply select the pattern and parameter settings and determine the area to be treated: Rapide™ does the rest. An in-built safety checklist ensures that the selected pattern can be completed in less than 750 milliseconds, whilst the energy set is displayed through the slit lamp in the operator’s focal plane – limiting the risk of treatment error. In addition, both treatment fluence and real spot size are automatically calculated and displayed prominently on the touchscreen interface (based on the selected contact lens magnification.)

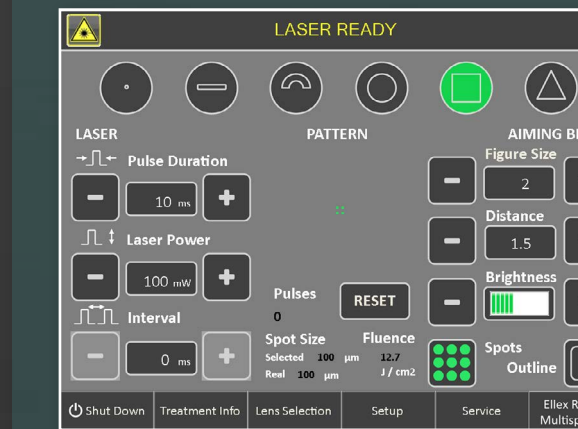
3 Superior Energy Distribution

Rapide™ delivers even energy across the full diameter of the spot, from beginning to the end of the exposure, without creating hot spots. This is because we use the highest quality optics and laser components in the industry, with real-time, continuous monitoring that adjusts power output. In addition, the laser cavity’s ultra-fast rise time and scanning ensure a maximum of 1 millisecond between laser shots (within each pattern).



4 Control at Your Fingertips

Offering greater efficiency, Rapide™ features an intuitive, touchscreen user interface for easy, quick adjustment of all treatment parameters: laser energy, pulse duration, pattern selection and pattern size can be selected via the touchscreen. This slimline touchscreen provides high-contrast and optimal visibility, and can be easily moved/angled, as needed. An ambidextrous toggler control can also be used to adjust treatment parameters, and to rotate and accurately position each pattern while maintaining your view through the eyepieces.



5 Maximize Treatment Outcomes, Minimize Patient Discomfort

Unlike conventional photocoagulation, Rapide™ uses 10-30 millisecond pulse durations, allowing you to achieve the desired therapeutic effect whilst minimizing patient discomfort. These millisecond pulses also limit the potential for damage to surrounding tissue, dramatically reducing both vertical and horizontal thermal diffusion (especially to the choroid) of the laser energy. The result is targeted burns with minimal collateral damage to surrounding tissue, and a limited risk of macular edema.

6 Pinpoint Precision

Rapide’s computer-controlled operation delivers precise pattern spacing, combined with consistent shaping of laser spots and patterns, for accurate, predictable treatment results.

7 Designed to Deliver

Rapide™ has been developed specifically for the application of pattern scanning laser technology. Unlike other systems, which have been adapted from conventional single-shot photocoagulation and provide limited precision, visibility and patient accessibility due to the use of external adapters, Rapide™ delivers more reliable – and faster – system performance.



One Powerful Vision

Accessories and Options

Total Solution™ Table

With the added benefit of comfort, flexibility and an optimized patient-physician interface, the Total Solution™ table (wheelchair accessible, mobile) enables you to meet the alignment needs of even your most challenging patients.

High-Visibility Eye Safety Filter

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

Intended Use

Retina Retinal Photocoagulation

Glaucoma Laser Trabeculoplasty
Laser Iridotomy

S11™ | SLIT LAMP |

Rapide™ comes standard with Ellex's industry-leading S11 slit lamp. Optimized for retinal viewing, it features coaxial delivery and a 10-degree stereoscopic angle for better depth perception and an excellent view of the periphery.

Note: Rapide™ can also be configured with a Haag-Streit slit lamp [models BM and BQ].

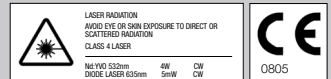
Magnification	6.3x, 10x, 16x, 25x, 40x
Field of View (diameter in mm)	35.9, 23.3, 14, 8.8, 5.5
Stereoscopic Angle	10 degrees
Slit Width	1-10mm continuously variable (at 10mm, slit becomes a circle)
Diopter Adjustment	+/- 7 diopters
Illumination	12 V, 30 W halogen lamp
Brightness	continuously adjustable

Rapide™ Product Specifications

Laser Source	Q-switched Nd: YAG
Wavelength	532 nm
Power at Cornea	1500 mW
Pulse Duration	pattern: 10-30 ms; single: 10-650 ms
Spot Size	50, 100, 200, 300, 400 μm
Aiming Beam	red 635 nm, adjustable intensity pattern projected as spot or outline
Patterns	square, circle, arc, sector, line (spot repetition in single-shot mode)
User Interface	15" touchscreen; toggler control
Slit Lamp	Ellex S11: Galilean converging binocular stereomicroscope with 22 mm inter-optical path distance optimized for pattern laser delivery. 6-degree convergence binocular tubes provide easy binocular fusion for stress-free observation.
Electrical	100-240 VAC, 50 Hz, 230 VA
Cooling	air cooled
Weight	39.5 kg, 87 lbs. (laser only)
Dimensions (HxWxD)	57 x 92 x 44 cm (laser only) 23 x 36 x 18 inches (laser only)
Standard Accessories	Ellex S11 slit lamp, toggler control, footswitch, Total Solution™ table (wheelchair accessible, mobile), eye safety filter, remote display, safety glasses, laser safety sign, dust cover
Optional Accessories	Laser indirect ophthalmoscope (LIO), tonometer mount, photocoagulation laser lenses, including: Mainster lens, 3-mirror lens

Specifications are subject to change without notice.

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