

PASCAL Photocoagulator

Streamline



PRECISE AND CONSISTENT OUTCOME WITH THE PASCAL METHOD:

PASCAL
PHOTOCOAGULATOR

STREAMLINE™

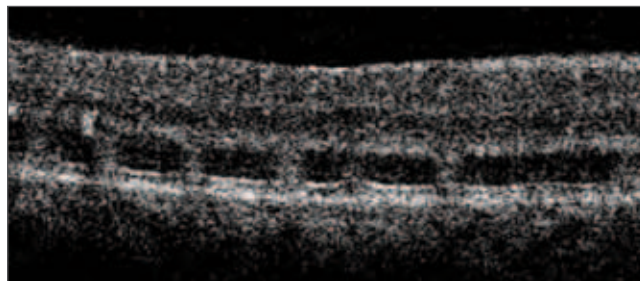
The Pattern Continues

PASCAL Streamline™ Photocoagulator combines core Pascal® technology with enhanced patterns and printed reporting. Streamline continues the PASCAL legacy of improving the photocoagulation experience for patients, physicians and practices by incorporating customer recommendations into a palette of new patterns and features.

The facts speak for themselves

PASCAL is the only scanning photocoagulator to-date with:

- » 18 peer-reviewed clinical articles
- » > 60 abstract presentations at scientific meetings highlighting the safety, efficacy & other benefits of the PASCAL Methode of photocoagulation.



Threshold Pascal® 10ms burns remain highly localised in outer retina

OCT image provided by:
Prof. Paulo E. Stanga Consultant Ophthalmologist and Vitreoretinal Surgeon, Manchester
Royal Eye Hospital Professor of Ophthalmology, University of Manchester

More galvos

Utilizing **3 high speed galvanometers** with a Continuous laser source, PASCAL Streamline allows more uniform spots, creating more precise lesions, with complete consistency across the entire pattern and treatment area.

More efficient

The only pattern scanner system that offers a continuous laser source, the Streamline gives more consistent laser lesions without the need for constant power adjustment.

More safety checks

Power, position and galvo performance are monitored at a rate of 100,000 times per second with a highly specialized FPGA system.

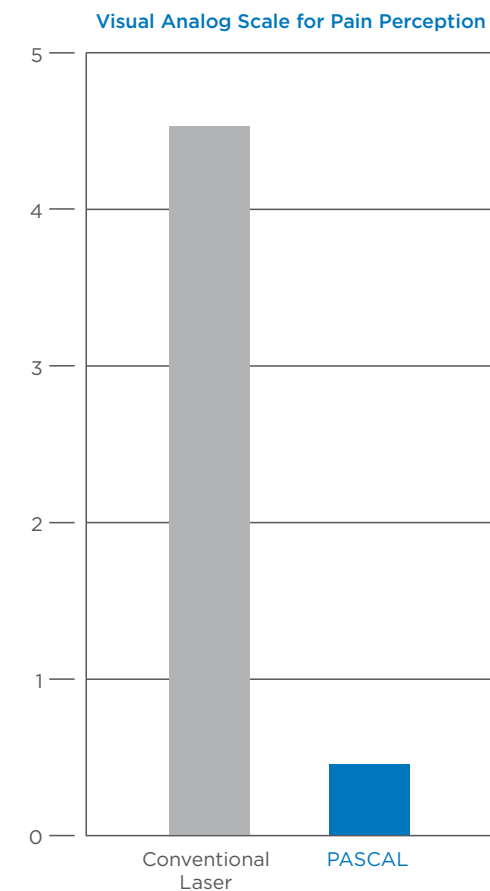
Enhanced Ergonomics

- » Shorter working distance
- » Enough space for contact laser lens use
- » Added amber filter for improving retina observation
- » Ergonomic 3D user controller
 - » enhances user comfort
 - » illuminated for easy location in a dark treatment room
 - » allows precise physician control over laser position and power settings
 - » conveniently adjust and rotate laser patterns



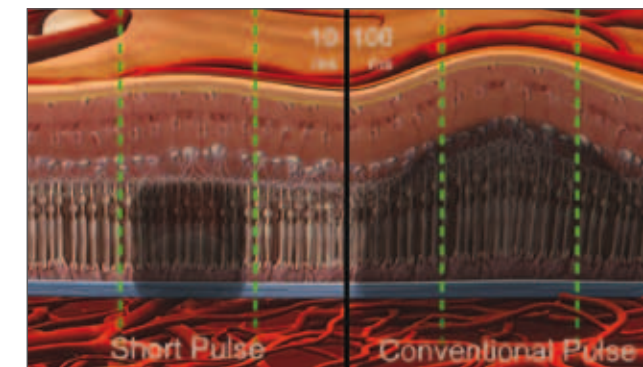
Less patient discomfort

Using lower power and shorter pulses result in less trauma and less pain. The PASCAL Method has been validated with numerous clinical papers.



Less "spread" after treatment

Precision control with short pulse durations confines energy to inhibit thermal spread after each laser application.



Less delay

The only system that uses 3 precision galvanometers, PASCAL Streamline offers unparalleled laser output control. Using this method greatly reduces lag time between pulses, thus offering the fastest pattern treatment available.

Versatile Streamline Module/Accessory options

The PASCAL Streamline offers the following optional modules:

- » PASCAL's unique PLT (Pattern Laser Trabeculoplasty) Software for management of open-angle glaucoma.
- » Video option with added video camera & monitor. Easily observe all treatments on a conveniently positioned, independently rotatable, video monitor.
- » LIO for single spot indirect laser photocoagulation.



PLT software



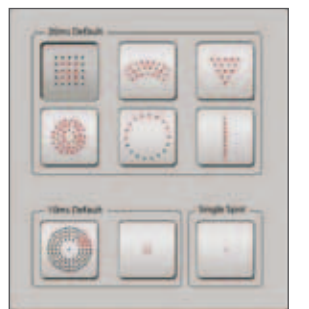
VTS monitor

Endpoint

Endpoint Management sharpens titration ability with fine gradation of laser output providing further precision in setting visible or non-visible endpoints within the retina.

Powerful and simple enhanced retina patterns

- » Provides easy access to a multitude of pattern variations to suit almost any clinical need.
- » With the touch of a finger, create arrays, lines and rectangles to best match the treatment area.
- » Triple ring patterns encapsulate a retina tear in seconds.
- » Without removing your eyes from the oculars, the auto advance feature automatically adjusts the pattern for easy alignment and treatment progression.



Streamline Enhanced Patterns

Printed Reporting

- » Option for detailed printed summary of each Streamline procedure.
- » Confirmation of laser settings, parameters and patterns used.
- » Better documentation of patient record and follow-up notation.



Printable Treatment Reports For Both
Retina And Glaucoma Procedures

Specifications

Laser	532 nm optically pumped semiconductor laser (OPSL)
Patterns	Single spot, array, triple arc, wedge, triple ring, arc, line, octant
Power	0 - 2000 mW
Power control	Dual slit lamp mounted controls & touch screen user interface
Treatment pulse durations	10 - 1000 ms (ms available in the PLT module)
Aim beam	635 ± 10 nm
Aim beam power	Adjustable to < 1mW
Delivered spot size	60, 100, 200 and 400 µm
Retinal spot size	Determined by the product of the spot size and the contact lens Laser magnification factor
Pattern position control	Adjustable by joystick, pattern selection and electronic micromanipulator
Graphical user interface	Adjustable touch screen control panel display (26,5 cm) Mounted on slit lamp table
Slit lamp	Custom slit lamp design
Slit lamp table	Ergonomic design and wheelchair accessible
Magnification selection	5 step by drum rotation, 6x, 10x, 16x, 25x, 40x
Eyeiece	12.5x
Dimension	Height: adjustable, 114 - 153 cm Length: 97 - 112 cm Width: 59 - 84 cm Weight: 69,4 ± 4,5 kg
Input power requirement	100 - 240V - 50/60Hz 500VA
Cooling	TEC / Air Cooled

IMPORTANT

Subject to change in design and/or specifications without advanced notice.

In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.



TOPCON CORPORATION

Topcon Europe Medical B.V.

Essebaan 11; 2908 LJ Capelle a/d IJssel; P.O. Box 145;
2900 AC Capelle a/d IJssel; The Netherlands
Phone: +31-(0)10-4585077; Fax: +31-(0)10-4585045
E-mail: medical@topcon.eu; www.topcon-medical.eu

Topcon Danmark

Praestemarksvej 25; 4000 Roskilde, Denmark
Phone: +45-46-327500; Fax: +45-46-327555
E-mail: info@topcondanmark.dk
www.topcondanmark.dk

Topcon Scandinavia A.B.

Neogatan 2; P.O. Box 25; 43151 Mölndal, Sweden
Phone: +46-(0)31-7109200; Fax: +46-(0)31-7109249
E-mail: medical@topcon.se; www.topcon.se

Topcon España S.A.

HEAD OFFICE: Frederic Mompou, 4;
08960 Sant Just Desvern; Barcelona, Spain
Phone: +34-93-4734057; Fax: +34-93-4733932
E-mail: medica@topcon.es; www.topcon.es

Topcon Italy

Viale dell' Industria 60;
20037 Paderno Dugnano, (MI) Italy
Phone: +39-02-9186671; Fax: +39-02-91081091
E-mail: topconitaly@tiscali.it; www.topcon.it

Topcon France

BAT A1; 3 route de la révolte, 93206 Saint Denis Cedex
Phone: +33-(0)1-49212323; Fax: +33-(0)1-49212324
E-mail: topcon@topcon.fr; www.topcon.fr

Topcon Deutschland GmbH

Hanns-Martin-Schleyer Strasse 41;
D-47877 Willich, Germany
Phone: (+49) 2154-885-0; Fax: (+49) 2154-885-177
E-mail: med@topcon.de; www.topcon.de

Topcon Portugal

Rua da Forte, 6-6A, L-0.22; 2790-072
Carnaxide; Portugal
Phone: +351-210-994626; Fax: +351-210-938786
www.topcon.pt

Topcon Polska Sp. z o.o.

ul. Warszawska 23; 42-470 Siewierz; Poland
Phone: +48-(0)32-670-50-45; Fax: +48-(0)32-671-34-05
www.topcon-polska.pl

Topcon (Great Britain) Ltd.

Topcon House; Kennet Side; Bone Lane; Newbury
Berkshire RG14 5PX; United Kingdom
Phone: +44-(0)1635-551120; Fax: +44-(0)1635-551170
E-mail: medical@topcon.co.uk; www.topcon.co.uk

Topcon Ireland

Unit 276, Blanchardstown; Corporate Park 2
Ballycoolin; Dublin 15, Ireland
Phone: +353-18975900; Fax: +353-18293915
E-mail: medical@topcon.ie; www.topcon.ie



TOPCON EUROPE MEDICAL

75-1 Hasunuma-cho, Itabashi-ku, Tokyo 174-8580, Japan. Phone: 3-3558-2523/2522 Fax: 3-3960-4214 www.topcon.co.jp