

PASCAL Pattern Scanning Laser Trabeculoplasty (PSLT)

*An advanced tissue-sparing laser
treatment for reducing IOP.*



PSLTTM
PATTERN SCANNING
LASER TRABECULOPLASTY



PSLT delivers minimally traumatic laser treatment to the trabecular meshwork.

Pattern Scanning Laser Trabeculoplasty (PSLT¹) is an exclusive software upgrade for PASCAL laser systems.* It is an advanced tissue-sparing laser treatment for reducing intraocular pressure in open angle glaucoma. PSLT provides a rapid, precise, and minimally traumatic computer-guided treatment that applies a sequence of patterns onto the trabecular meshwork. Automated rotation of consecutive patterns ensures that treatment steps are precisely placed without overlap or excessive gaps. PSLT gives a novel approach to glaucoma management within a multi-functional laser system.

The advantages are clear:

Precise Alignment - Computer guided treatment and glaucoma specific patterns result in precise alignment, spacing and spot placement to the trabecular meshwork.

Non-destructive procedure - Energy is delivered below levels where conventional photocoagulation occurs, producing a healing response without scarring and coagulative damage.

Lower Intraocular Pressure - Clinical studies show an IOP reduction of 24% in 6 months²

Less Pain compared to SLT - PSLT offers greater patient comfort and less pain over SLT.³

Reduced treatment time compare to SLT - Shorter duration of laser treatment for PSLT compared to SLT³

 **TOPCON**

YOUR VISION. OUR FOCUS.

*System Availability:

PSLT is available as an optional upgrade for PASCAL Streamline and Synthesis Lasers.

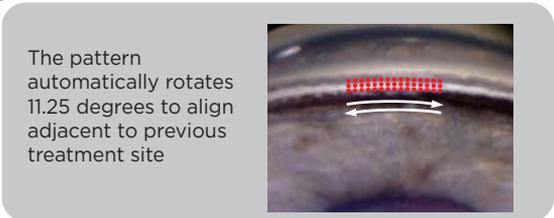
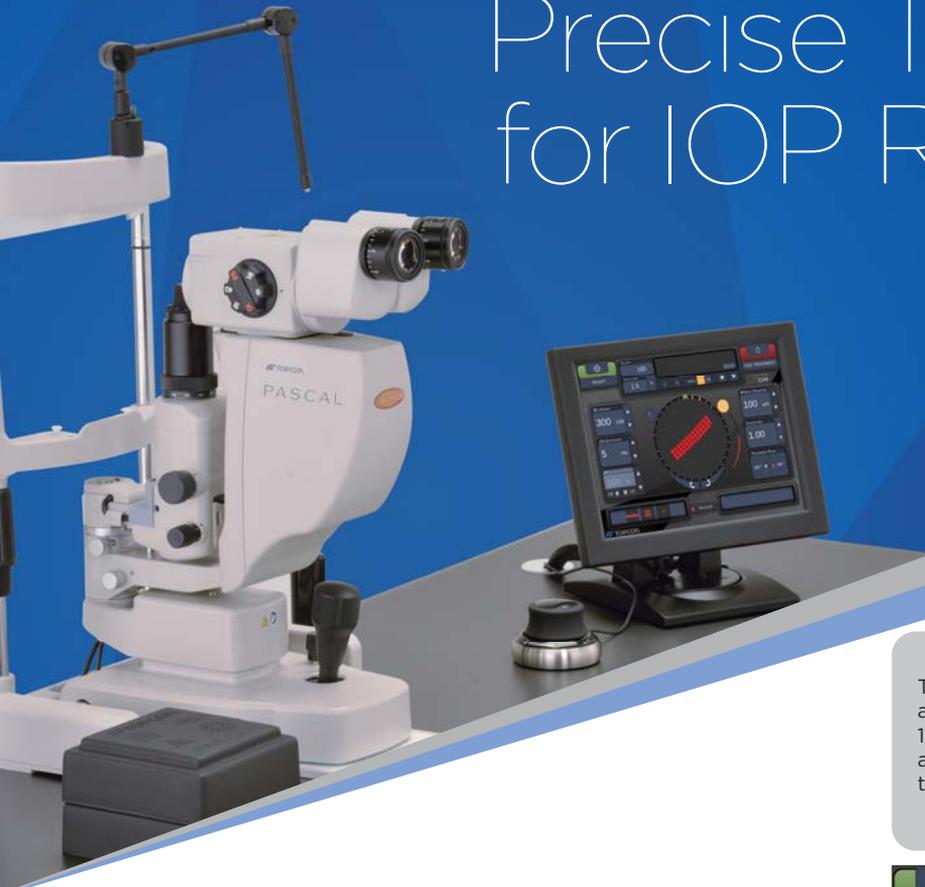
1 PSLT is an optional software and not available in all countries, please check with your distributor for availability in your country.
The PSLT module is not FDA cleared for sale in the USA.

2 Patterned Laser Trabeculoplasty . M. Turati, et.al, Ophthalmic Surgery Lasers and Imaging, 41:538-545 (2010).

3 Acta Ophthalmol. 2016 Oct 25. doi: 10.1111/aos.13280. Comparing pattern scanning laser trabeculoplasty to selective laser trabeculoplasty: A randomized controlled trial. Mansouri K Shaarawy T.

Precise Treatment for IOP Reduction

PSLT™
 PATTERN SCANNING
 LASER TRABECULOPLASTY



The pattern automatically rotates 11.25 degrees to align adjacent to previous treatment site

Easy to use

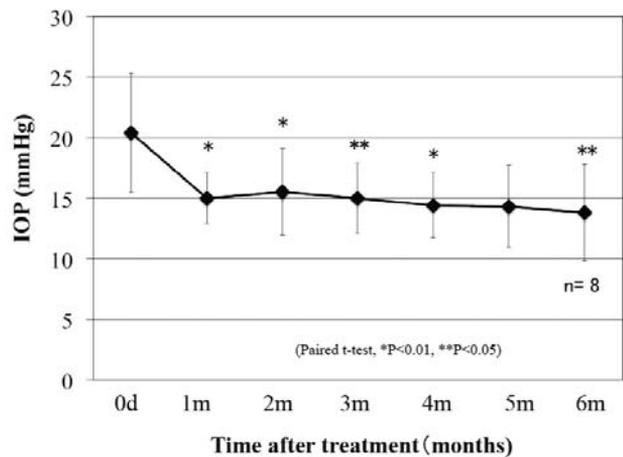
Exclusive to PASCAL and developed specifically for treating the trabecular meshwork, the PASCAL PSLT software has the most advanced pattern scanning functionality available.

Successfully Control IOP

According to a study, PSLT has successfully reduced IOP without the scarring and burns associated with ALT.² PSLT applications are delivered below levels where conventional photocoagulation occurs, but within the therapeutic range of trabecular meshwork response. This results in cellular healing without scarring or coagulative damage.

Post-operative treatment reports

- » Detailed printed summaries of each PSLT procedure are provided, along with details of each laser setting, parameters and locations of the patterns.
- » Automated documentation of patient treatment, pattern placement and system parameters offers added security for record maintenance.



Intraocular pressure (IOP) follow-up during the first 6 months. The IOP significantly decreased from the pretreatment level of 20.5 3 4.7 to 15.0 3 2.1 mm Hg at one month ($p < 0.01$, t-test) and remained until 6 months (13.43 3 3.7 mmHg, $p < 0.05$). (Data courtesy of Dr. Miho Nozaki)

² Patterned Laser Trabeculoplasty . M. Turati, et.al, Ophthalmic Surgery Lasers and Imaging, 41:538-545 (2010).