

NAVILAS *pro*

Navilas[®] Laser System 577s Pro

Precise - faster - economically efficient



Navilas® 577s Pro

Next generation beyond pattern laser

The Navilas® Laser System 577s Pro is your entry to all-digital laser therapy based on the unique benefits of its proprietary retina navigation technology. Our navigated laser is proven in practices and clinics worldwide across major retina applications and more.



Your entry to retina navigation

Precise, faster and economically efficient

The Navilas® Laser System 577s Pro makes retinal laser treatments more efficient thanks to the high speed of laser application and optimized patient comfort. The next generation retina laser is available at competitive pricing while flexibly growing with your application needs.



More comfortable for patients and doctors

Reduced pain of pattern application, optimized ergonomics and enhanced working distance between patient and doctor



Faster and more efficient

44% faster application of laser spots, better patient cooperation and efficient use of team resources



More precise and reliable

Pre-planning, retina navigation and caution zones for enhanced quality assurance of treatments

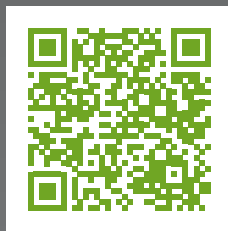


Your affordable path to the nextgen retina laser

The all-digital Navilas® 577s Pro is the next generation beyond pattern laser available at competitive pricing and growing with your application needs

"Navigation continues to transform surgical interventions into safer, more standardized and more predictable procedures with finally better outcomes for patients."

Dr. Igor Kozak, Moorfields Eye Hospital Abu Dhabi, United Arab Emirates



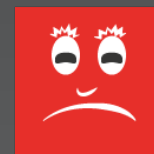
Visit Navilas® Pro website
www.od-os.com/navilas-laser-system-577s-pro

Reduced pain experience

More comfortable for patients and doctors

Navilas® Pro makes focal and peripheral laser treatments more comfortable. Patients report less pain experience with navigated application of pattern which supports better compliance and high patient satisfaction ratings.

0 1 2 3 4 5 6 7 8 9 10



Navilas® 577s Navigated Laser:

Painscore : VAS of 2.4 ± 1.6
Time : 5.2 ± 0.8 min

Conventional 577nm Pattern Laser:

Painscore : VAS of 7.1 ± 2.0
Time : 6.6 ± 1.1 min

Amoroso F, Pedinielli A, Astroz P, et al. Comparison of pain experience and time required for pre-planned navigated peripheral laser versus conventional multispot laser in the treatment of diabetic retinopathy. Acta Diabetol. November 2019.

„It is most likely that the application of each spot with a short break—as it is in navigated laser—leads to a “restoration” of retinal tissue reducing the pain between the impacts.”

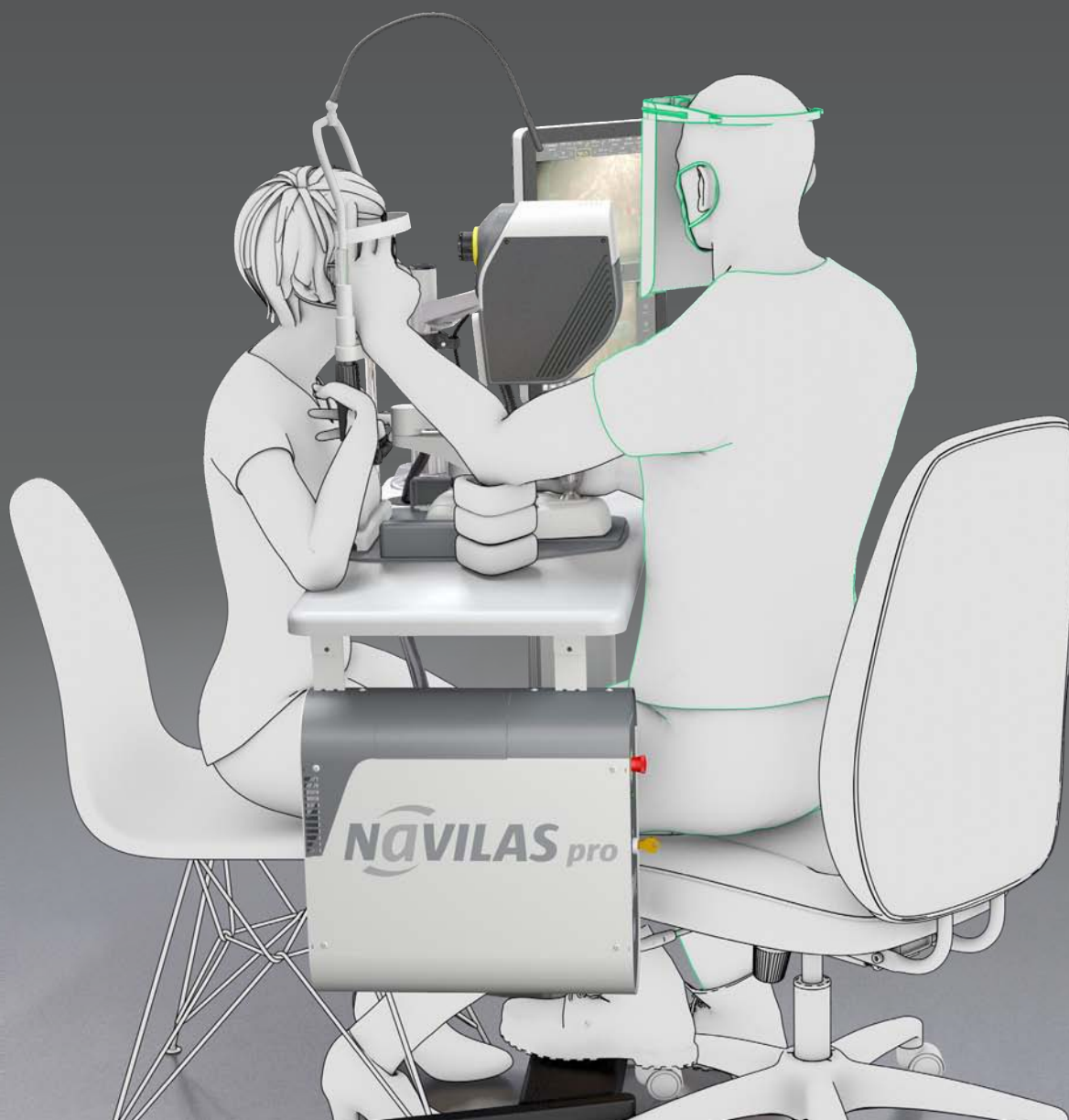
Dr. F. Amoroso, CHI de Créteil, France

Perfect ergonomics and larger working distance

When performing treatments with Navilas® doctors benefit from an upright and variable sitting position with no need to bend the head forwards. The slightly rotated view towards the monitor leads to a larger working distance between doctor and patient. For best hygiene compliance, treating physicians may use their personal safety equipment.

"The screen-based treatment is ergonomically comfortable for the doctor and also allows for better interaction with your patients and students. Our field has about a 30% rate of neck and musculoskeletal complications over the course of our careers."

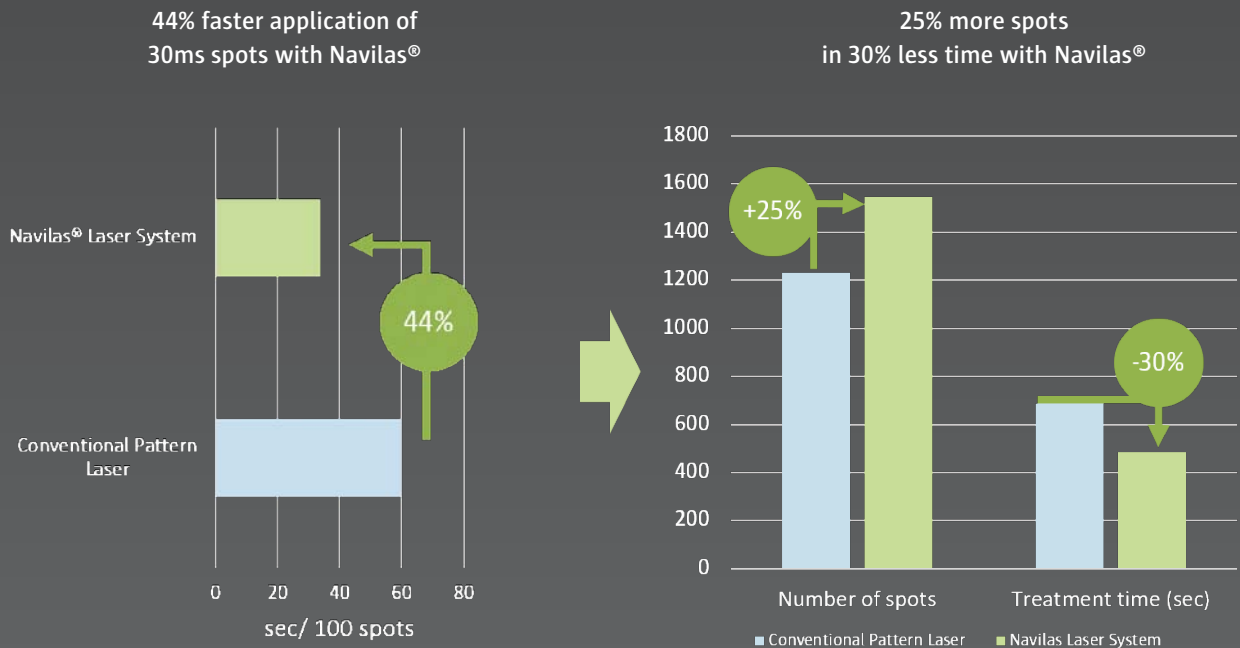
Dr. Robin Ross, Global Retina Institute, Arizona, USA



Higher patient throughput

Faster and more efficient

Faster application of laser spots, better patient cooperation and efficient use of team resources contribute to higher efficiency of laser treatments.



Chhablani J et al Comparison of conventional pattern and novel navigated panretinal photocoagulation in proliferative diabetic retinopathy. Invest Ophthalmol Vis Sci. 2014 May 1;55(6):3432-8. doi: 10.1167/iops.14-13936. PubMed PMID: 24787564.

"I am very impressed with the new Navilas® 577s PRP. To me as the physician it feels ergonomic and straightforward - the system literally lets me paint the peripheral retina with uniform spots in a very short amount of time. It was very well tolerated by the patients, with only topical anesthesia. Navilas® now has an industry leading PRP tool to complement its incomparable focal laser capability."

David Brown, MD, Houston, Texas, USA

Enhanced quality assurance

More precise and reliable

Navilas® is the only retinal laser on the market with eye tracking and caution zones for precise targeting, high consistency and reliability.



Liesfeld, Ben et al: Navigating Comfortably across the Retina; World Congress on Medical Physics and Biomedical Engineering, 2009



Watch treatment videos
www.od-os.com/cases

"Navilas provides all the digital functionality and safety to explore the optimal treatment strategies in a range of retinal indications. It is really is the tool we were dreaming for."

Prof. Eric Souied, CHI de Créteil, France

Flexible upgrade packages

Affordable path to the nextgen laser

Navilas® 577s Pro flexibly grows with your application needs. To determine the best configuration of your navigated laser system and to find out about annual licensing options, please contact the OD-OS Navilas® team and our global partners.

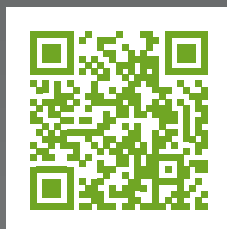


+ Advanced Comfort

+ Advanced Integration

+ Advanced Reporting

+ Advanced Teaching



www.od-os.com/contact

A better way to do laser

Proven benefits of retina navigation

Navilas® Pro provides retinal specialists with an all-digital workflow for the efficient implementation of common retinal laser treatments.



Familiar, fast operation with contact lens

Standard contact lenses are compatible with Navilas® Pro for intuitive, computer-guided treatments.



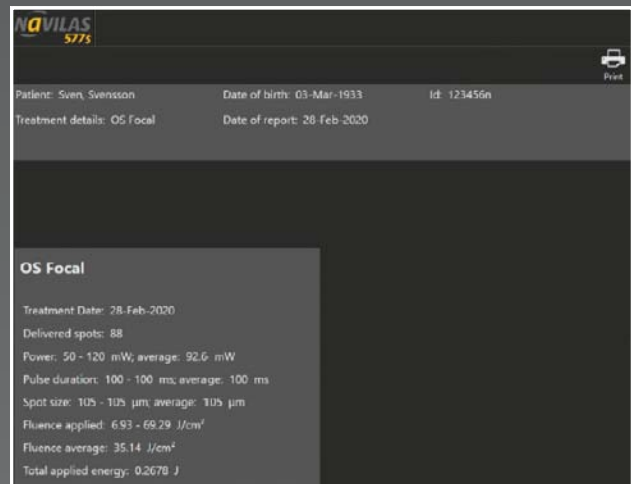
Full screen fundus image

A high-resolution Navilas® color fundus image provides better overview during treatment.



Precise targeting and caution zones

Caution zones and target-assisted laser application enable precise and easy-to-control treatments.



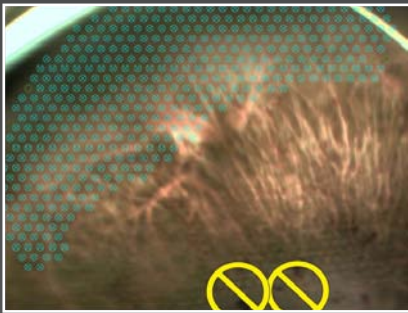
Treatment parameters in a digital report

Navilas® Pro automatically generates a transparent, digital treatment report for storage and referring doctors.

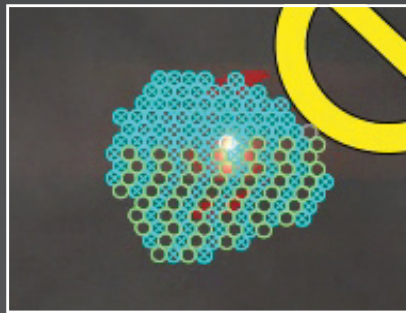
Treatment modalities

Major retina applications and more

Navilas® Pro combines the advantages of pre-planned, tracked and therefore highly precise lasering with the established standards that you know from conventional pattern lasers.



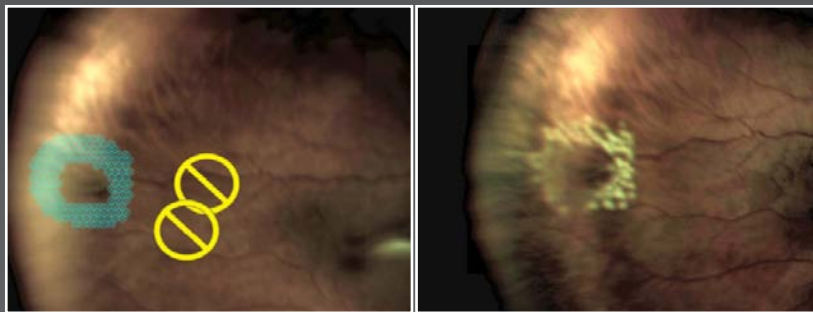
Fast PRP
Even distribution of spots in color mode



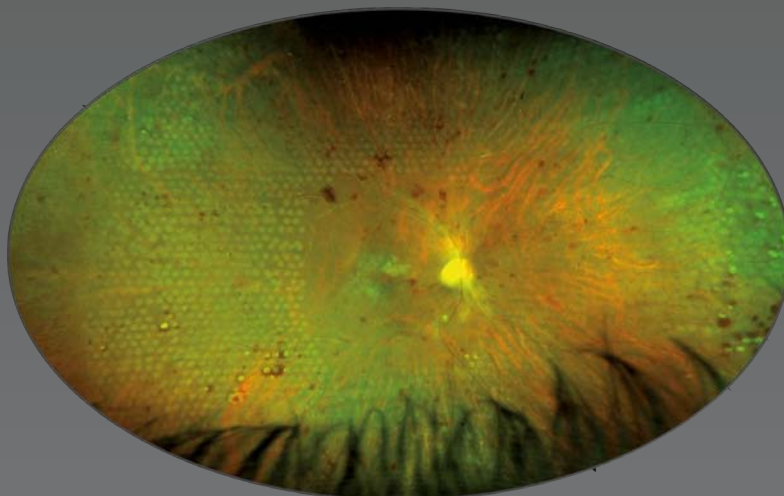
Microsecond pulsing
Every second spot delivery



Anterior segment mode
Iridotomy and Laser Trabeculoplasty



Horseshoe tear
Far periphery



The Optos widefield image shows an equidistant distribution of laser spots after navigated laser treatment (source: Dr F. Amoroso, CHI de Créteil, FR)

Retina navigation

Advanced treatment

Features	Pattern laser	Navilas® 577s Pro
Basic treatment		
Yellow laser source 577nm	✓	✓
Retina focal and peripheral treatment mode	✓	✓
Anterior treatment mode (e.g. for LPI, MLT, PLT)	✓	✓
Contact glass treatment for PRP/Anterior/Focal	✓	✓
Single spot application	✓	✓
High speed ad-hoc pattern application without planning	✓	✓
Advanced treatment		
Pattern PRP with equidistant spots + flexible configuration of pulse duration (e.g. to 100ms)	-	✓
Microsecond pulse laser mode	*	✓
Every second spot, confluent delivery for subthreshold treatments	-	✓
Fundus imaging included in laser system	-	✓
Import and display of external diagnostic images	-	✓
Digital treatment planning based on fundus image incl. caution zones, e.g. for optical nerve head	-	✓
Tracking and mapping of retina on live image	-	✓
Navigated treatment with plan overlay and target assistance	-	✓
Reporting		
Treatment report with parameters + print function	*	✓

**Available on some competitor systems Regional configuration of the Navilas® 577s Pro may vary. Please inquire details with our local partners.*

"Navilas® 577s was a worthwhile investment also from the financial point of view as the system basically paid itself within the first year."

Dr. Lars Freisberg, Tulsa Retina Consultants, USA



Navilas® Laser System 577s Pro

Technical Specifications

Laser wavelength	577 nm (yellow) wavelength
Laser type	Optically Pumped Semiconductor Laser (OPSL), Class IV Aiming beam: diode laser, 635 nm (red), < 1 mW, Class II
Laser power	50-2000 mW
Pulse duration	10-4000 ms
Treatment modes	Continuous Wave Microsecond Pulsing: 50-500 µs; 5, 10, 15 %, variable duty cycle Anterior applications: Iridotomy, MLT/PLT
Digital fundus imaging	True-color
Optics and field of view	Contact objective (focal/peripheral): up to 165° / 180° dynamic, analogous to contact glass used
Spot size on retina	Contact objective (focal/peripheral): 50-1000 µm (w/magnification)
Network access	RJ45 ethernet connector, import of images, remote service
Footprint (LxDxH)	110 cm x 70 cm x 127/160 cm / 44" x 28" x 50"-63"
Power supply	115-230 VAC, 50-60 Hz
Conformity	US FDA 510(k) clearance and CE conformity in accordance with the Medical Device Directive 93/42/EEC
Resources	Clinical experiences: www.od-os.com/experts ; Navigate App: www.od-os.com/navigate

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