



**NAVILAS**<sup>®</sup> NAVIGATED  
LASER THERAPY

# Retina Navigation

## A new treatment paradigm

OD-OS has created Retina Navigation to set new standards in retinal photocoagulation. Retina Navigation is an innovative approach, integrating laser delivery and a real-time digital imaging device. Fundus images are acquired and annotated by the physician using a touch screen, creating a detailed treatment plan which becomes available as a live overlay on the retina

during treatment. In this way, *NAVILAS*<sup>®</sup> fully integrates imaging, planning and treatment. This is Retina Navigation. As a result, *NAVILAS*<sup>®</sup> enables to improve accuracy, safety, speed and comfort in the laser treatment of retina disorders, combined with novel digital documentation capabilities.

## Documentation to monitor and inform

To support patient treatment documentation and post-treatment follow-up and analysis, the *NAVILAS*<sup>®</sup> system provides a customizable report editor incorporating the actual treatment location

and laser spots applied. This allows for maximal transparency during and after treatment and assists the physician in decision making, patient information and education.

# Image ease of use



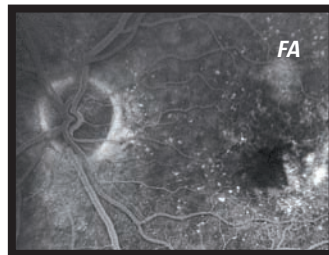
## Essential for treatment

NAVILAS® offers continuous imaging modes vital for diagnosis, photocoagulation planning and assistance during subsequent treatment. Its digital screen displays true color fundus

imaging, both mydratic and nonmydratic, as well as monochrome red-free, infrared imaging and fluorescein angiography.



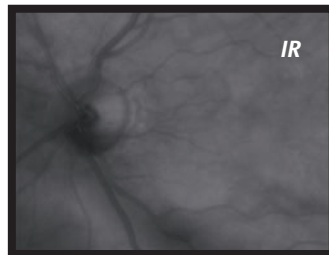
*Mydratic and  
Non-Mydratic*



*Fluorescein  
angiography*



*Red-free*



*IR image*

# Plan accurate and secure



## Layout your treatment strategy

With its integrated planning tools, NAVILAS® places the physician in ultimate control to graphically define and mark areas on the acquired retinal images for future treatment. These points of

interest (POIs) are created and manipulated using the touch-sensitive screen, and can later be displayed and overlaid on the live fundus image during the actual treatment.



*Planned treatment on an FA image*

*Areas not to be treated*

*Planned treatment spots*

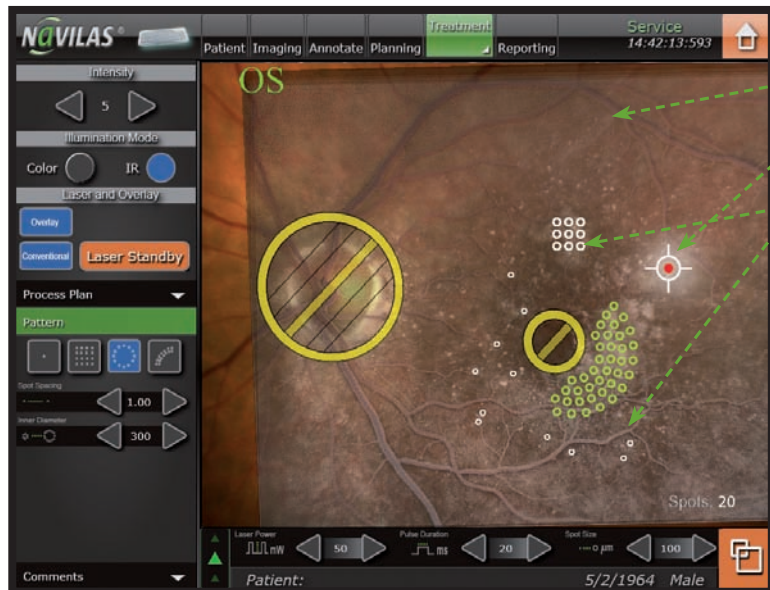
# Treat fast and documented



## Treatment accuracy refined

During treatment, the physician can continuously view previously acquired, pre-planned images including any points of interest (POIs), overlaid on the real-time color image of the retina.

This provides fast treatment using adjustable laser patterns and selectable single spot treatments. NAVILAS® also allows digital documentation of the laser spots applied.



The screenshot displays the NAVILAS software interface. The top navigation bar includes tabs for Patient, Imaging, Annotate, Planning, Treatment (selected), and Reporting. The top right shows 'Service 14:42:13:593' and a home icon. The left sidebar contains various controls: Intensity (set to 5), Illumination Mode (Color and IR), Laser and Overlay (Overlay, Conventional, Laser Standby), Process Plan (Pattern), Spot Size (1.00), Laser Character (300), Laser Power (50), Pulse Duration (20), and Spot Size (100). The main display area shows a live fundus image of the retina with a yellow circle highlighting a specific area and a red dot indicating the aiming beam. A cluster of green circles represents the documented delivered treatment spots. The text 'OS' is visible in the top left of the fundus image, and 'Spots: 20' is shown in the bottom right. The bottom status bar displays 'Patient: 5/2/1964 Male' and a print icon.

FA overlay on live fundus image

Aiming beam

Documented delivered treatment spots

# Technical Specifications

## Imaging

Field of view (static)	10°; 30°; 50°
Field of view (dynamic)	110°
Imaging Modes	Color/IR (Mydriatic & Non-Mydriatic), FA/Red-Free
Focus adjustment	+/- 15 Dpt

## Overall Dimensions and Electrical Requirements

Height (floor to headrest)	1147 mm–1501 mm / 45"–59" (without cable and fixation target)
Depth	790 mm / 31"
Length	1190 mm / 47"
Electrical	100–120 V / 220–240 V, 50/60 Hz Single phase 10 A
Cooling	Air cooled



## Treatment Laser

### Aiming Beam

Laser type	Diode laser
Laser class	II
Wavelength	635 nm Max. average power <1mW

### Photocoagulation Laser

Laser type	Diode pumped, solid state frequency-doubled Nd:YVO
Wavelength	532 nm, laser class IV
Laser power	1200 mW



For more information, please visit:  
[www.od-os.com](http://www.od-os.com) or contact [info@od-os.com](mailto:info@od-os.com)

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