Retina and Glaucoma Imaging Platform

SPECTRALIS®

HEIDELBERG ENGINEERING®
Retina and Glaucoma Imaging Platform

The SPECTRALIS® system is an expandable, multi-modal diagnostic imaging platform which combines scanning laser fundus imaging with high-resolution OCT. It is the only imaging system with the patented TruTrack Active Eye Tracking technology.

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Retina

- **1** Nerve fiber layer
- **2** Ganglion cell layer
- **3** External limiting membrane
- **4** Photoreceptors
- **5** RPE
- **6** Bruch’s membrane
- **7** Choroid

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Glaucoma

- **Within normal limits** ($p > 0.05$)
- **Borderline** ($p < 0.05$)
- **Outside normal limits** ($p < 0.01$)
The SPECTRALIS system is an ophthalmic imaging platform with an upgradable, modular design. This platform allows to configure each SPECTRALIS to the specific diagnostic workflow in the practice or clinic. Options include: OCT, multiple laser fundus imaging modalities, widefield and ultra-widefield modules, and scanning laser angiography.

### Upgradable, modular design

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<th>OCT Spectralis</th>
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Some options can be added anytime; some are only available at initial equipment purchase.

*Currently under development and not for sale yet.

### Based on exclusive core technologies

- TruTrack Active Eye Tracking
- Heidelberg Noise Reduction
- AutoRescan
- Simultaneous fundus and OCT imaging
- Anatomic Positioning System
- Confocal Scanning Laser Ophthalmoscopy
**Anterior Segment Module**

High-resolution anterior segment imaging

The Anterior Segment Module enables high-resolution OCT imaging of cornea, sclera, and anterior chamber angles.

**Glaucoma Module Premium Edition**

Next generation glaucoma diagnostics

The Glaucoma Module Premium Edition provides a comprehensive analysis of the optic nerve head, retinal nerve fiber layer, and ganglion cell layer by precisely matching unique scan patterns to the fine anatomic structures relevant in glaucoma diagnostics.

**OCT2 Module**

Next generation OCT module

OCT2 is a next generation OCT module for the SPECTRALIS platform, offering enhanced image quality and the faster scan speed needed for advanced imaging technologies such as OCT angiography*.
BluePeak is a non-invasive, scanning laser fundus imaging modality that provides a map of the retina which can reveal metabolic malfunction of diagnostic significance in many conditions such as AMD.

Blue Laser Autofluorescence

MultiColor is an innovative technology for fundus imaging offering image detail and clarity not available from traditional fundus photography.

Scanning Laser Imaging
**Widefield Imaging Module**

The Widefield Imaging Module provides the standard field of view of a mydriatic fundus camera for all SPECTRALIS fundus and OCT imaging modalities, simplifying diagnostic protocols and facilitating detection of peripheral pathology.

**Scanning Laser Angiography**

The SPECTRALIS scanning laser angiography provides high-resolution images and video sequences showing the dynamic movement of dye through the vessels and minute details of the parafoveal capillary network.
Ultra-Widefield Angiography Module

Angiography from the macula through the periphery
The Ultra-Widefield Angiography Module delivers evenly illuminated and undistorted, high-contrast scanning laser images from the macula through the periphery.

OCT Angiography Module

Non-invasive vascular imaging
The OCT Angiography Module\* non-invasively produces detailed three dimensional illustrations of the retinal and choroidal microvasculature.

\*OCT Angiography is under development and not for sale yet.