



REVO nx

THE WORLD'S FASTEST OCT

AS SIMPLE AS PRESSING *the start button*



OPTOPOL
technology

REVO *Evolution continues*

Optopol engineering team, designers of the first commercially available Spectral Domain OCT in the world, are proud to present the World's fastest OCT.

Our supreme experience in Spectral Domain OCT allows us to provide the market with the state of the art instrument, offering advanced technologies and remarkable simplicity of operation.

The new REVO NX software meets all demands of a daily routine in a modern ophthalmic practice. The new angiography module expands the precision of your diagnosis with minimum patient fatigue.



Need for speed

The world's fastest available scanning speed allows for more achievable and more detailed exams with reduction of the scanning time. It brings benefits for both clinicians and patients by reducing errors often caused by involuntary eye movements.

OCT made simple as never before

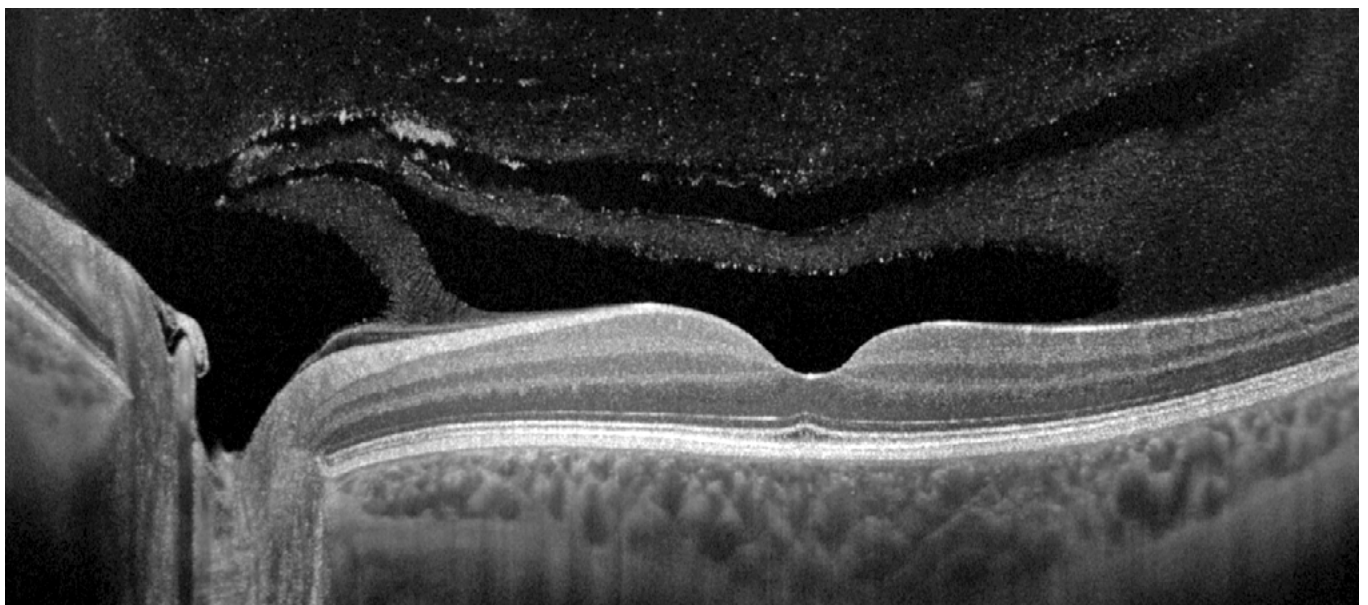
Position the patient and press the START button to acquire examinations of both eyes. The Revo NX, using vocal messages, guides the patient through the process, increasing comfort and reducing patient chair time. Short scanning time ensures less fatigue for the patient. Creating customized scanning protocols of different diagnostic scenarios speeds up the workflow.

A perfect fit for every practice.

With a small system footprint and access for both operator and patient only necessary from one side, space saving is further enhanced. In addition, connection by a single cable allows the installation of REVO NX into the smallest of examination room spaces. Revo's variety of examination and analysis tools enables it to effortlessly function as a screening or advanced diagnostic device.

High quality of OCT image

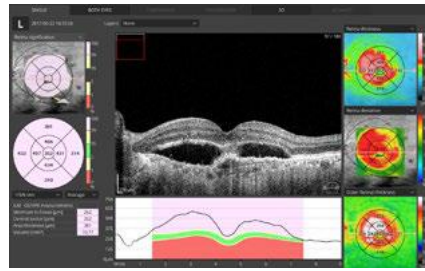
The noise reduction technology provides the finest details proven to be important for early disease detection.



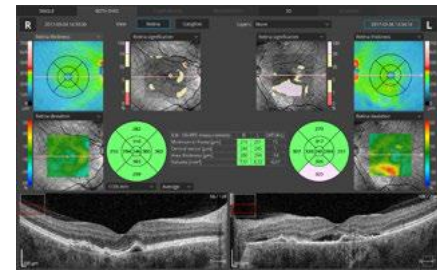
RETINA

A single 3D macula scan performs both Retina and Glaucoma analysis. The software automatically recognizes 8 retinal layers which assists with a precise diagnosis and the mapping of any changes in the patient's condition. A variety of result analysis and presentation methods allows for the best selection suitable to increase efficiency of work.

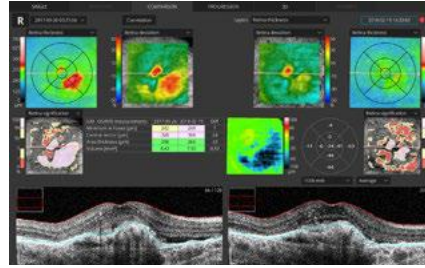
Single



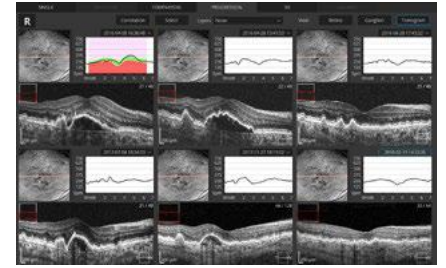
Both



Comparison

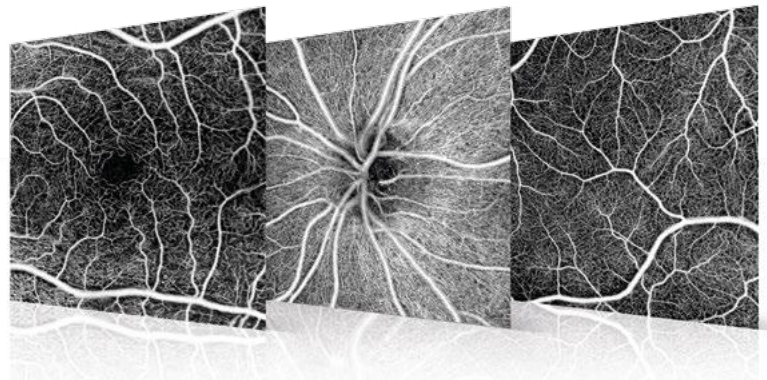


Progression



ANGIOGRAPHY SOCT¹

This non-invasive dye free technique allows the visualization of the microvasculature of the retina. Both blood flow and structural visualization will give additional information in the diagnosis of many retinal diseases. Angiography scan allows assessment of the structural vasculature of the macula, periphery or the optic disc. Extremely short scanning time 1.6 second in standard resolution or in high resolution within ~3 seconds. Now Angiography OCT can become a routine diagnosis in your practice.

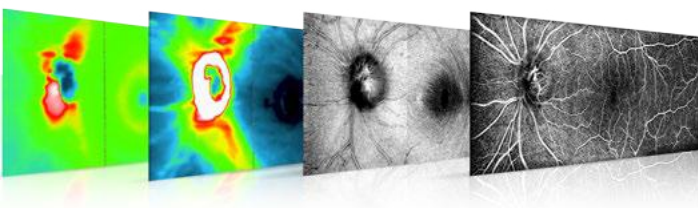


ANGIOGRAPHY MOSAIC¹

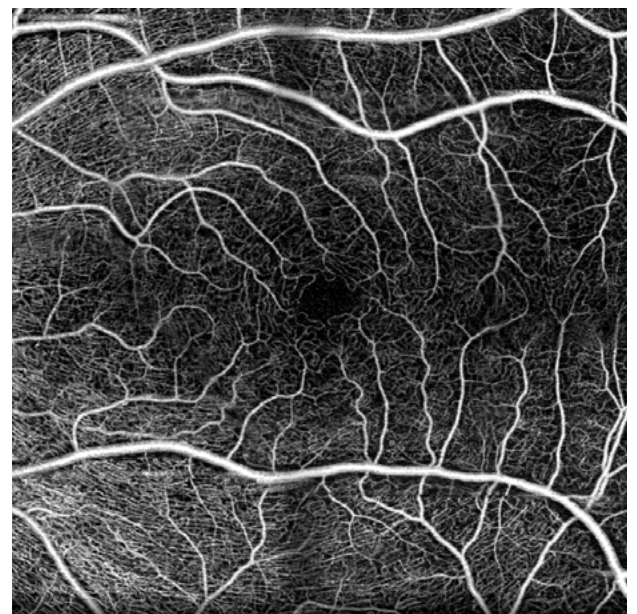
The Angiography mosaic delivers high-detailed images over large field of the retina. Available modes allow to see predefined region of the retina in a convenient way.



Manual mode allows to scan desired region. Analysis tools allow to see vascular layers, enface or thickness maps.



Mosaic mode: 7x7 mm



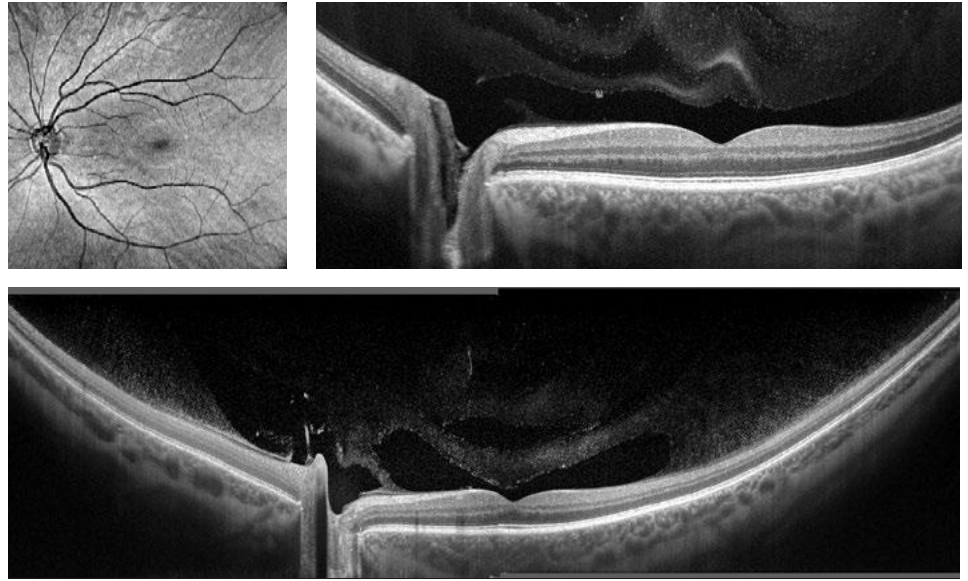
¹ an optional software module to purchase.

REVO *Intuition continues*

WIDEFIELD SCAN

12x12 mm Widefield Central scan is perfect for fast and precise screening of the patient's retina. Dense scanning in high resolution tomograms guarantee the discovery of most of the early changes.

Peripheral scanning reveals diseases in the far periphery.



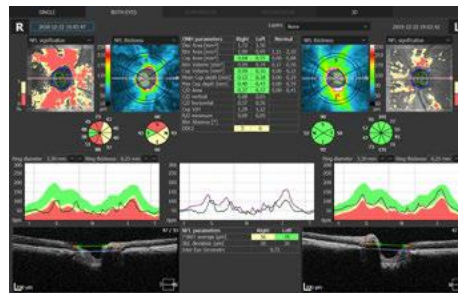
Combined view of two examinations of peripheral scan 12 mm + 12 mm. Done in external software.

GLAUCOMA

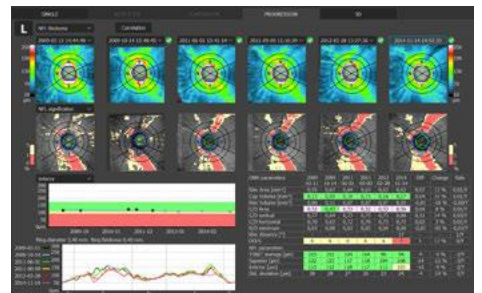
Comprehensive glaucoma analysis tools for quantification of the Nerve Fiber Layer, Ganglion layer and Optic Head with DDLS allow for precise diagnosis and the monitoring of glaucoma over time.

Asymmetry Analysis of Ganglion layers between hemispheres and between eyes allows easier identification and detection of glaucoma in early stages and in non-typical patients.

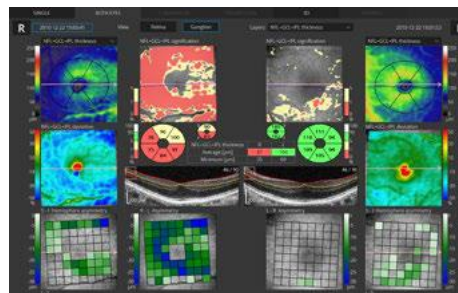
ONH Both



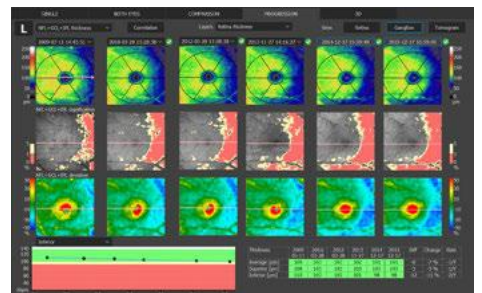
ONH Progression



Ganglion Both



Ganglion Progression

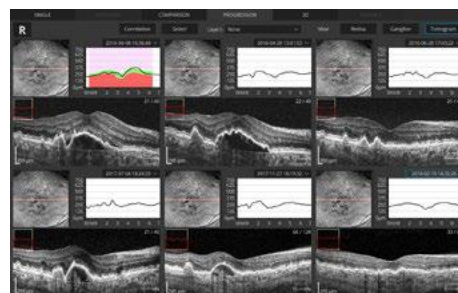


FOLLOW UP

Revo's standard high density scanning capability and blood vessel structure recognition enable a precise alignment of past and current scans

The Operator can analyze changes in morphology, quantified progression maps and evaluate the progression trends.

Progression Morphology

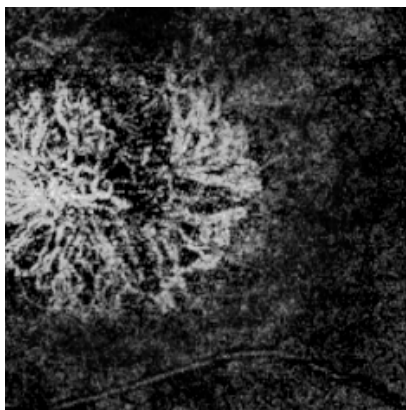


Progression Quantification

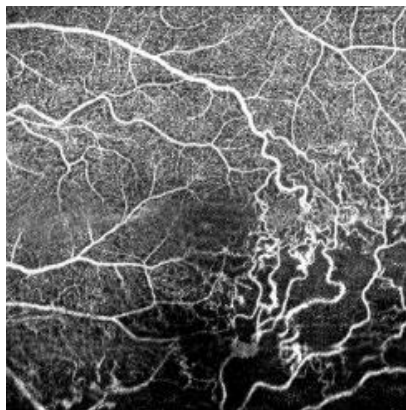


CLINICAL IMAGES

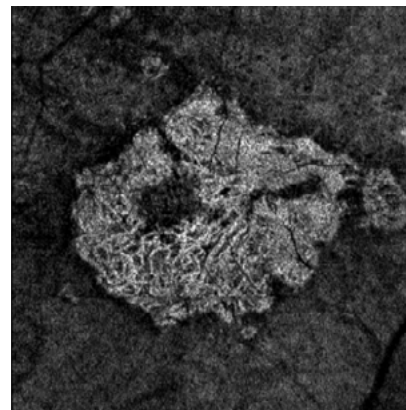
CNV



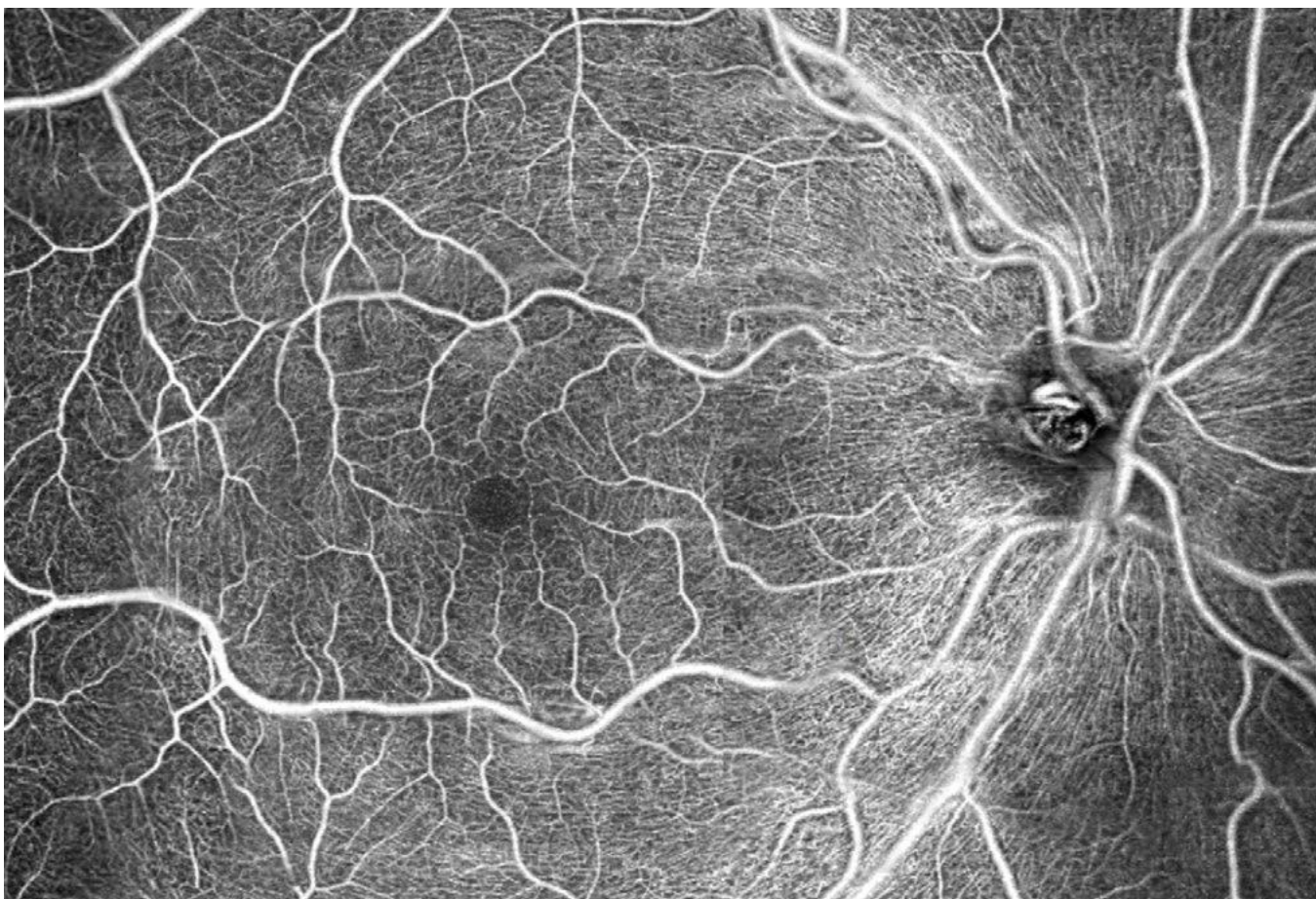
BRVO



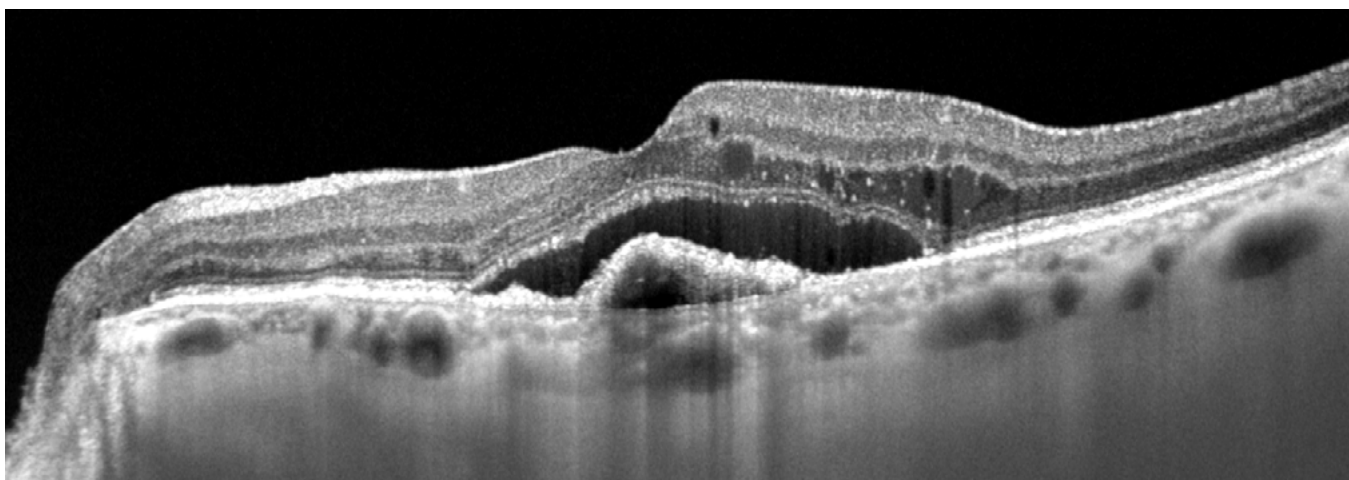
GA



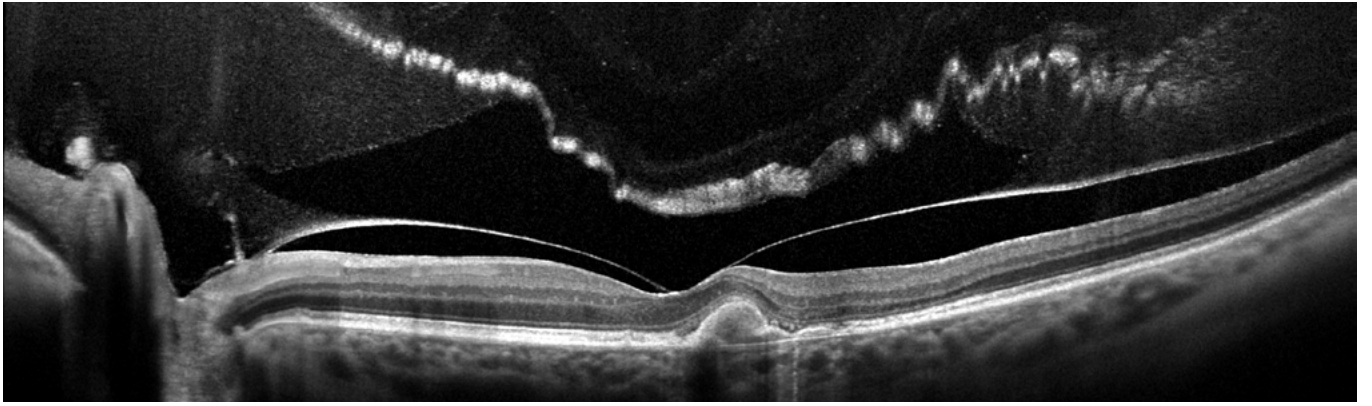
Sample of angio Manual mode. Composition from 6 scans.



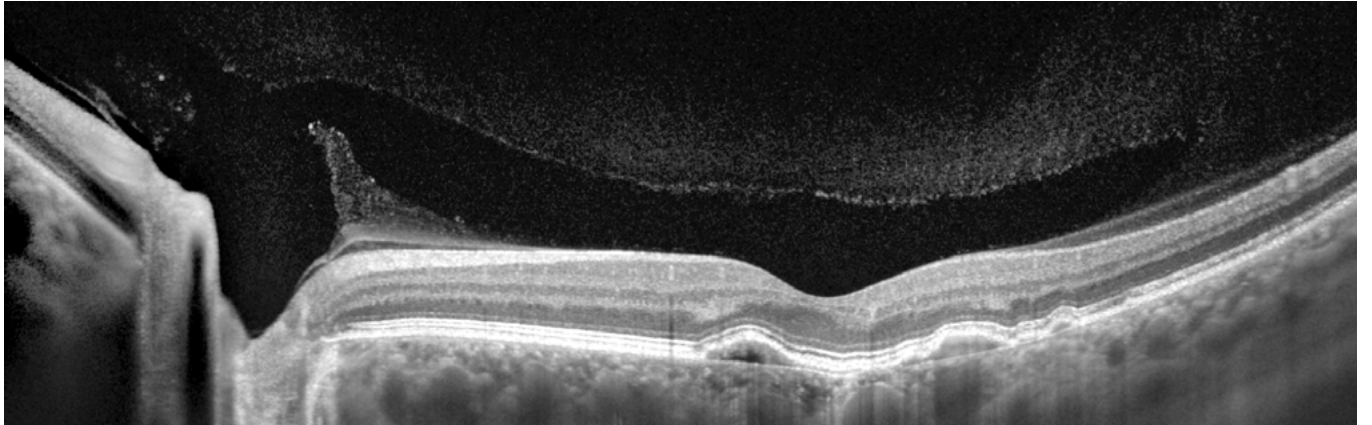
Choroidal observation



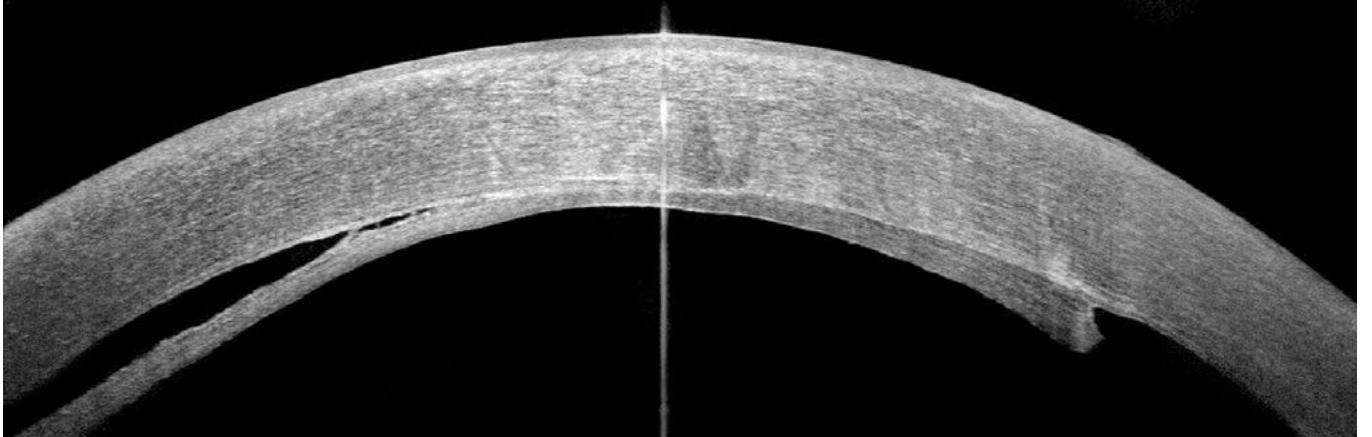
Central 12 mm scan



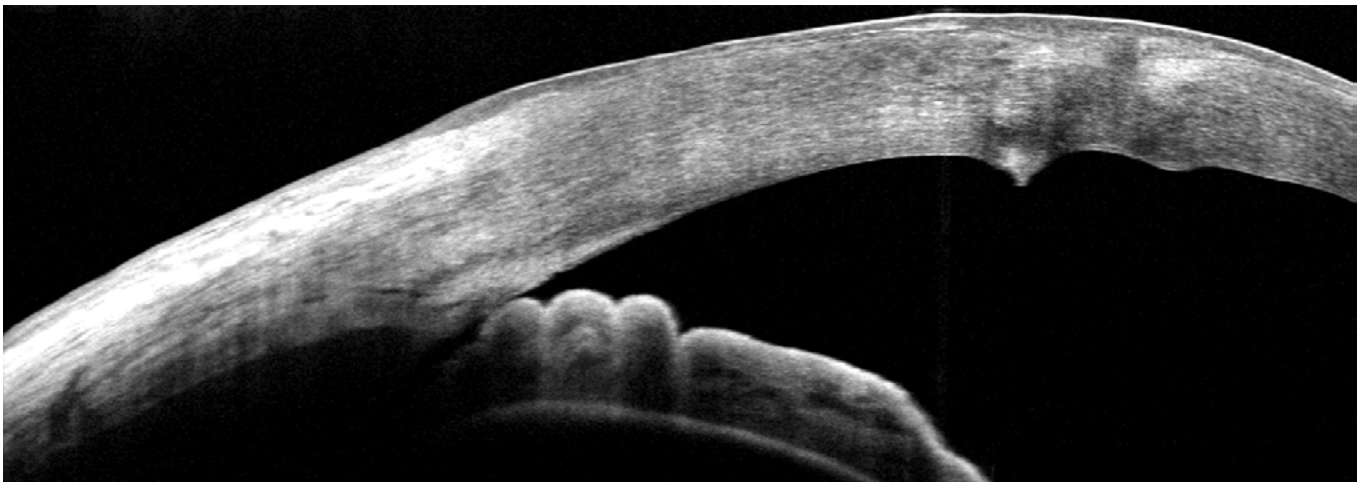
Central 12 mm scan



Cornea scan



Anterior scan



Technology	Spectral Domain OCT
Light source	SLED, wavelength 830 nm
Bandwidth	50 nm half bandwidth
Scanning speed	110 000 measurements per second
Axial resolution	5 μm in tissue 2.6 μm digital
Transverse resolution	12 μm , typical 18 μm
Overall scan depth	2.4 mm
Minimum pupil size	3 mm
Focus adjustment range	-25 D to +25 D
Scan range	Posterior 5–12 mm, Angio 3–9 mm, Anterior 3–16 mm
Scan types	3D, Angio ¹ , Radial (HD), B-scan (HD), Raster (HD), Cross (HD)
Fundus image	Live Fundus Reconstruction
Alignment method	Fully automatic, Automatic
Retina analysis	Retina thickness, Inner Retinal thickness, Outer Retinal thickness RNFL+GCL+IPL thickness, GCL+IPL thickness, RNFL thickness, RPE deformation, IS/OS thickness
Angiography OCT ¹	Superficial Plexus, Deep Plexus, Outer Retina, Choriocapillaries, Depth Coded, Custom, Enface, Thickness map
Angiography mosaic	Acquisition method: Auto, Manual Predefined modes: 7×7mm, 10×6 mm, 10×10 mm, 12×5 mm, Manual (up to 12 images)
Glaucoma analysis	RNFL, ONH morphology, DDLS, OU and Hemisphere asymmetry, Ganglion analysis as RNFL+GCL+IP and GCL+IPL
Biometry OCT ¹	AL, CCT, ACD, LT
Anterior	Pachymetry, LASIK Flap assesment, AIOP, Angle Assessment, AOD 500/750, TISA 500/750
Anterior Wide Scan	Angle to Angle view (Adapter required)
Connectivity	DICOM Storage SCU, DICOM MWL SCU, CMDL, Networking
Dimensions (W×D×H)	382×556×469 mm
Weight	23 kg
Fixation target	OLED display (the target shape and position can be changed), external fixation arm
Power supply	100–240 V, 50/60 Hz
Power consumption	115–140 VA

¹ optional software module

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