



REVO  
OCT | Fundus Camera

# REVO FC

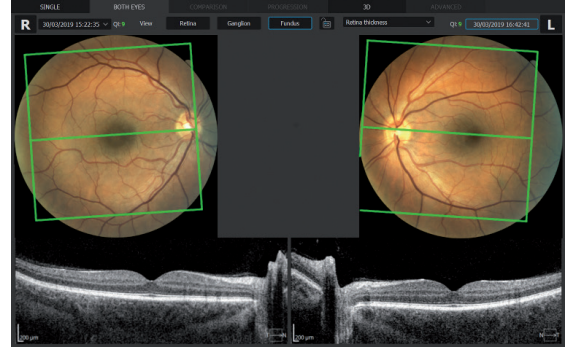
OCT | Fundus Camera

Our supreme experience in Spectral Domain OCT technology allows us to provide you with a single versatile device featuring high resolution OCT and true colour fundus imaging for time and space efficiency.

## SOCT with the complete Fundus Camera functionality

The combination of an All in One OCT technology with a Full Colour Fundus Camera in one compact system gives you high quality OCT images and a detailed colour image for a multipurpose diagnosis. Simultaneous capture of color fundus images of eye diseases and OCT examinations in a single shot saves time and space. Now you can use the REVO FC in the way you need it:

- as a device providing simultaneous OCT and fundus images
- as a Full Colour Fundus Camera
- only for high quality OCT imaging including OCT-A
- as an Optical Biometry device



Combine a high quality OCT image with the comprehensive analysis of the layer thickness and maps with a colour fundus image for a greater diagnostic certainty. A combination that makes the examination complete and easy.

## OCT made simple as never before

Position the patient and press the START button to acquire examinations of both eyes. The REVO FC guides the patient through the process with the use of vocal messages which increases comfort and reduces patient chair time.

## New OCT standard - all functionality in one device

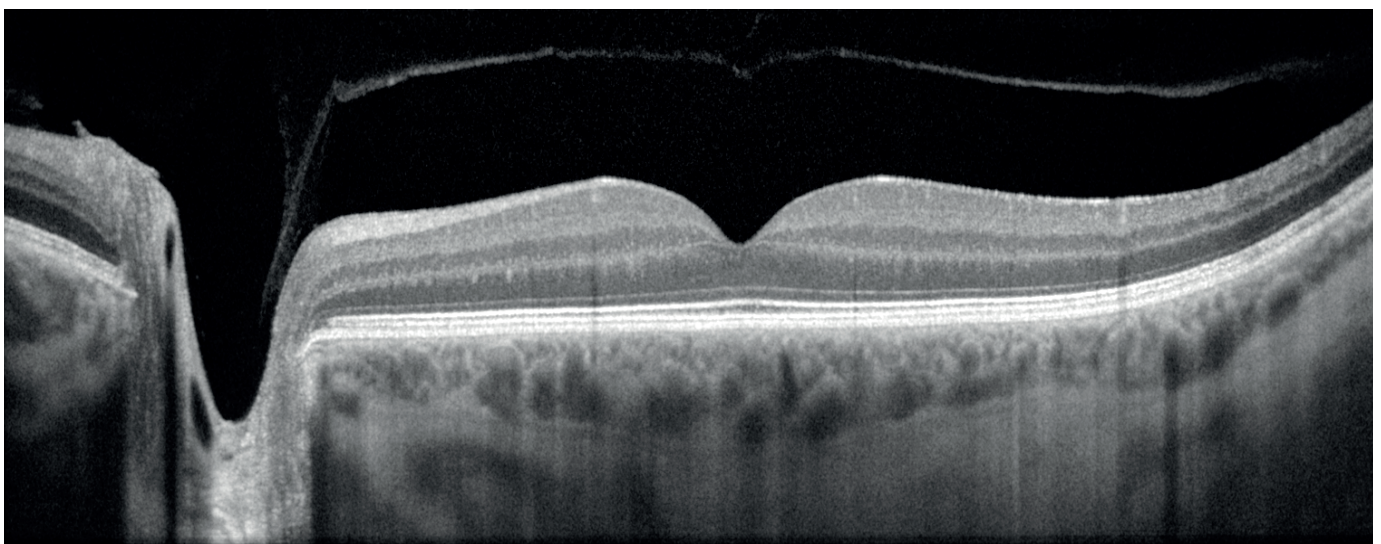
Once again REVO goes beyond the limits of standard OCT. With its new software, REVO enables a full functionality from the cornea to the retina. It brings benefits by combining the potential of several devices. With just a single REVO OCT device you can measure, quantify, calculate and track changes from the cornea to the retina including Axial measurement over time.

## A perfect fit for every practice

Small system footprint, various operator and patient positions and connection by a single cable allow the installation of REVO FC into the smallest of examination room spaces. REVO's variety of examination and analysis tools enables it to effortlessly function as a screening or an advanced diagnostic device.

## High quality of OCT image

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







## FUNDUS CAMERA

What makes the REVO FC truly unique is its non-mydratric 12.3 Mpix Fundus Camera integrated into all in one OCT device capable of capturing detailed colour images of ultra-high quality. The REVO FC is fully automated, safe and easy to use.

The advanced optical system ensures high quality imaging with a 45° viewing angle.

Color Fundus image capture is possible with a pupil as small as 3.3 mm. For OCT even 2.4 mm is enough.

Easy to use Fundus image processing tools deliver a stunning retinal image.

Available modes allow to see detailed photos of a single or both eyes as well as a time comparison of the fundus photos.



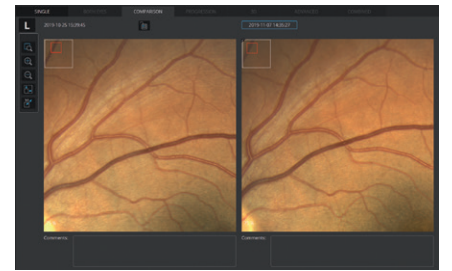
Full screen fundus photo



Both eyes fundus photo view



Fundus photo comparison view



## ANGIOGRAPHY SOCT<sup>1</sup>

This non-invasive dye free technique provides the visualization of the microvasculature of the retina. Blood flow and structural visualization and quantification will give additional information in the diagnosis of many retinal diseases. OCT Angiography scan allows assessment of the structural vasculature of the macula, periphery or the optic disc.

### QUANTIFICATION

The quantification tool provides quantification of the vasculature in the whole analyzed area together with values in specific zones and sectors. Thanks to the heat map of the analyzed vasculature the evaluation of vascular structure conditions is much faster. The choice of the quantification method increases the sensitivity of analyses for specific diseases.

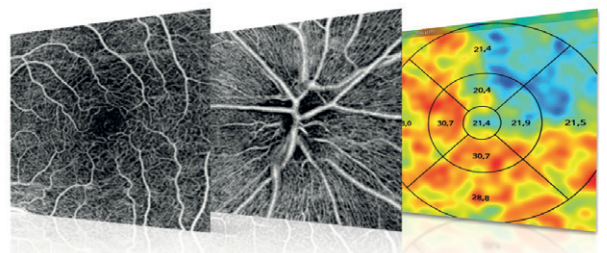
### ANGIO-ANALYTICAL TOOLS

FAZ – Foveal Avascular Zone measurements enable the quantification and monitoring of changes in Superficial and Deep vascular layers. The FAZ tool is also available for narrow and wide scans.

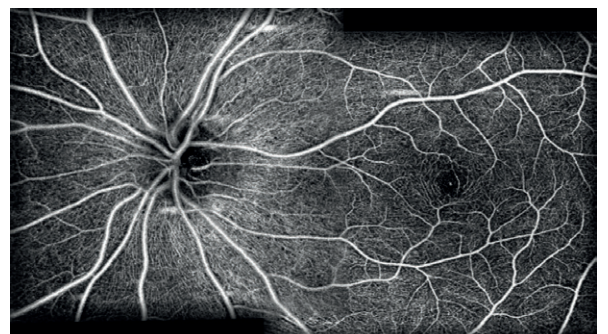
VFA – Vascular Flow Area allows the user to examine the pathologically affected area and to precisely measure the area covered by vascularization.

The simple and easy area measurement can be performed on a predefined or user-selected vascular layer.

NFA – Non Flow Area measurement tool makes it possible to quantify the Non Flow Area on the OCT Angio examination. It provides the sum of all marked areas.

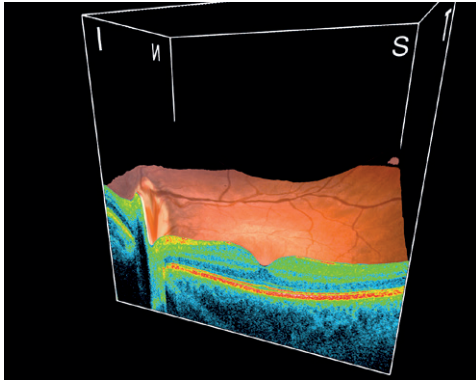


Mosaic mode: 10x6 mm

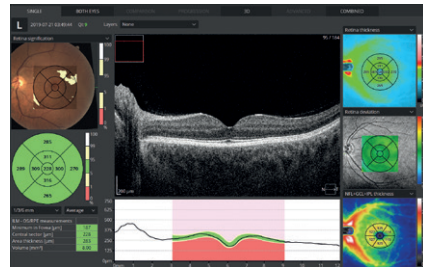


<sup>1</sup> an optional software module

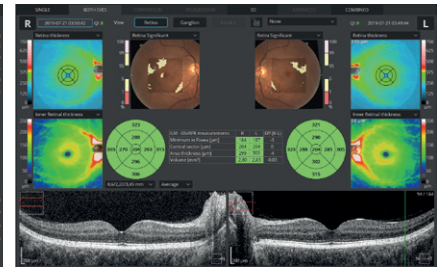
# R RETINA



Single



Both

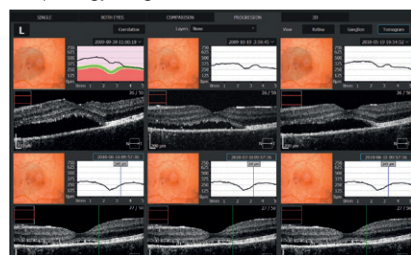


A single 3D macula scan performs both Retina and Ganglion cells analysis. The software automatically recognises 8 retinal layers which assists with a precise diagnosis and the mapping of any changes in the patient's condition. A variety of result analysis and presentation methods allows the most suitable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

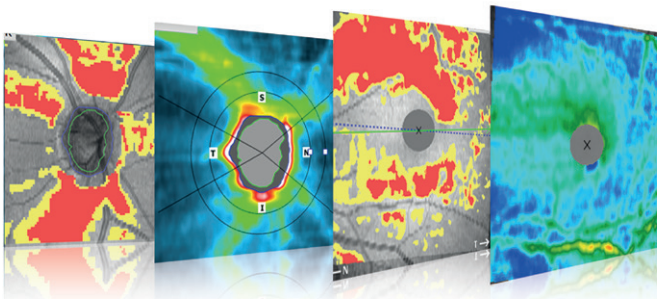
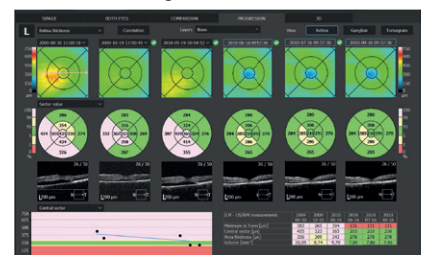
## FOLLOW UP

REVO's standard high density scanning capability and blood vessel structure recognition enable a precise alignment of past and current scans. Operator can analyze changes in morphology, quantified progression maps and evaluate the progression trends.

Morphology Progression



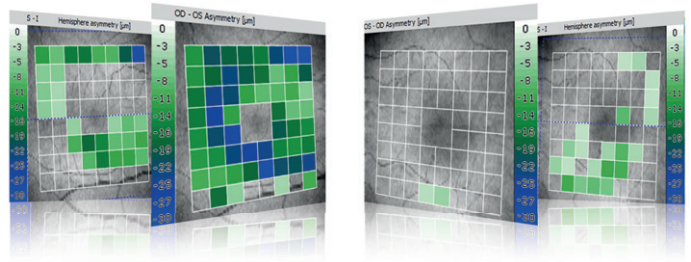
Quantification Progression



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

# D GLAUCOMA

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



# S&F STRUCTURE & FUNCTION<sup>2</sup>

Invaluable combination of information about the functional quality of sight with comprehensive data on retinal Ganglion Cells, RNFL and Optic Nerve Head for both eyes on a single report page. The S&F report contains the following:

- VF sensitivity results (24-2/30-2 or 10-2)
- Total and Pattern Deviation probability graphs for VF results
- Reliability and Global indices for VF results
- Combined map of Structure & Function
- Ganglion cells analysis (GCL+IPL or NFL+GCL+IPL)
- ONH and NFL analysis including charts and comparison tables
- NFL Asymmetry plot

Structure & Function



The S&F report compares in a natural way the anatomical relationship between VF and RNFL/Ganglion maps.

<sup>2</sup> via connection with PTS software version 3.4 or higher

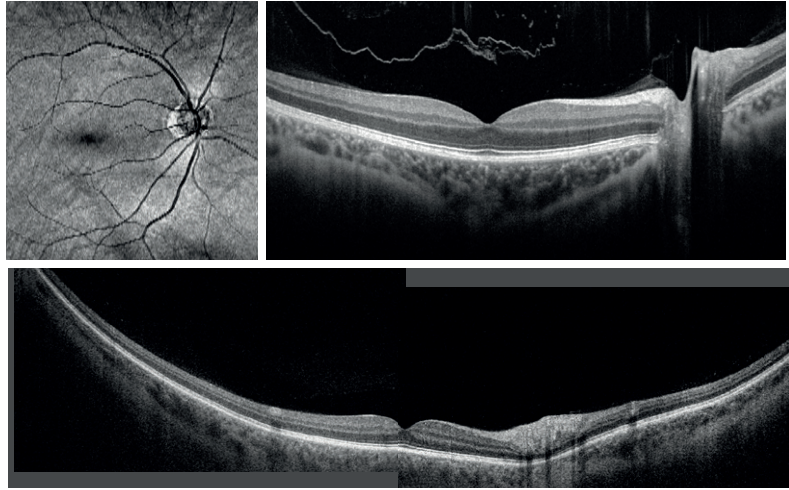




## WIDEFIELD SCAN

12x12 mm Widefield Central scan is perfect for fast and precise screening of the patient's retina.

Peripheral scanning reveals diseases in far periphery.



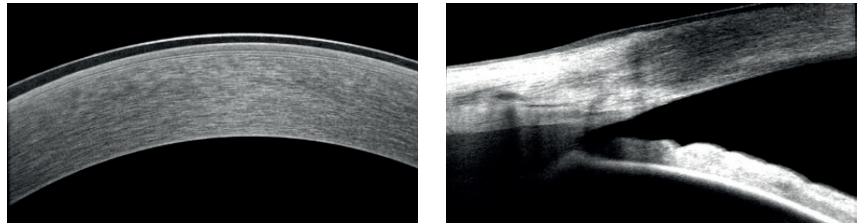
Combined view of two examinations of peripheral scan 12 mm + 12 mm. Done in external software.



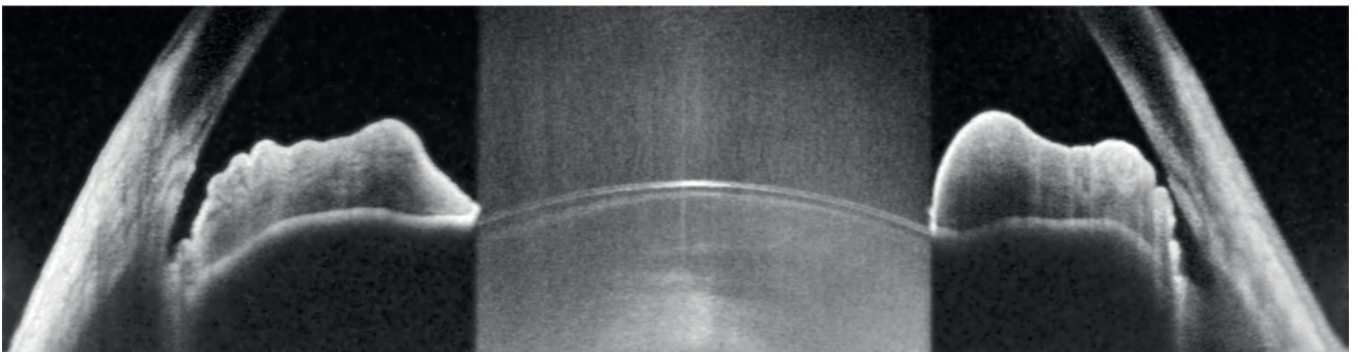
## ANTERIOR

For all anterior examinations, no additional lens is required. This allows the examiner to quickly complete the scanning procedure.

OCT gonioscopy provides the visualization of both iridocorneal angles together with information on iris configuration on a single, high-resolution scan for glaucoma evaluation.



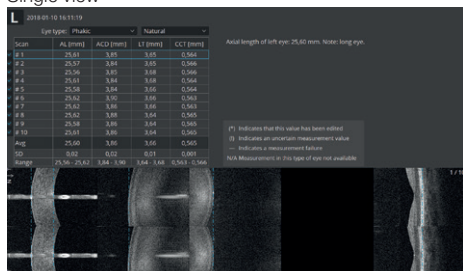
OCT Gonioscopy



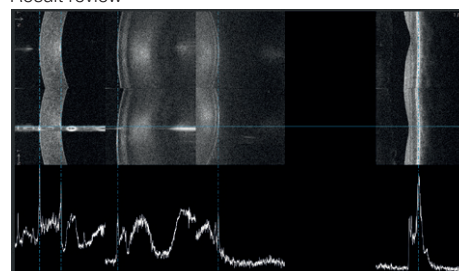
## BIOMETRY OCT<sup>1</sup>

B-OCT<sup>®</sup> is an innovative method of using a posterior OCT device to measure ocular structure along eye axis. OCT Biometry provides a complete set of Biometry parameters: Axial Length AL, Central Cornea Thickness CCT, Anterior Chamber Depth ACD, Lens Thickness LT.

Single view



Result review



### VISUALLY VERIFY YOUR MEASUREMENT

All measurement calipers are shown on all boundaries of OCT image provided by REVO. Now you can visually verify, identify and if need be, make corrections as to which structure of the eye has been measured.

<sup>1</sup> an optional software module

## FUNDUS CAMERA

Type	Non-mydratic fundus camera
Photograph type	Color
Angle of view	45° ± 5% or less
Min. pupil size for fundus	3.3 mm
Camera	12.3 Megapixel CCD camera

## OPTICAL COHERENCE TOMOGRAPHY

Technology	Spectral Domain OCT
Light source	SLED
Bandwidth	50 nm half bandwidth
Scanning speed	80 000 measurements per second
Axial resolution	2.6 µm digital, 5 µm in tissue
Transverse resolution	12 µm, typical 18 µm
Overall scan depth	2.4 mm
Focus adjustment range	-25 D to +25 D
Scan range	Posterior 5 mm to 12 mm, Angio 3 mm to 9 mm, Anterior 3 mm to 16 mm
Scan types	3D, Angio <sup>1</sup> , Radial (HD), B-scan (HD), Raster (HD), Cross (HD), TOPO, AL, ACD
Fundus alignment	IR, Live Fundus Reconstruction
Alignment method	Fully automatic, Automatic, Manual
Retina analysis	Retina thickness, Inner Retinal thickness, Outer Retinal thickness, RNFL+GCL+IPL thickness, GCL+IPL thickness, RNFL thickness, RPE deformation, MZ/EZ-RPE thickness
Angiography OCT <sup>1</sup>	Vitreous, Retina, Choroid, Superficial Plexus, RPCP, Deep Plexus, Outer Retina, Choriocapillaries, Depth Coded, SVC, DVC, ICP, DCP, Custom, Enface, FAZ, VFA, NFA, Quantification: Vessel Area Density, Skeleton Area Density, Thickness map
Glaucoma analysis	RNFL, ONH morphology, DDLS, OU and Hemisphere asymmetry, Ganglion analysis as RNFL+GCL+IP and GCL+IPL, Structure + Function <sup>2</sup>
Angiography mosaic	Acquisition method: Auto, Manual Mosaic modes: 10 mm × 6 mm, Manual up to 12 images
Biometry OCT <sup>1</sup>	AL, CCT, ACD, LT
Anterior No lens/adapter required	Pachymetry, Epithelium map, Stroma map, Angle Assessment, AIOP, AOD 500/750, TISA 500/750, Angle to Angle view
Connectivity	DICOM Storage SCU, DICOM MWL SCU, CMDL, Networking
Fixation target	OLED display (the target shape and position can be changed), External fixation arm
Dimensions (WxDxH) / Weight	367 mm × 480 mm × 504 mm / 30 kg
Power supply / consumption	100 V to 240 V, 50/60 Hz / 115 VA to 140 VA

<sup>1</sup> an optional software module

<sup>2</sup> via connection with PTS software version 3.4 or higher

[www.optopol.com](http://www.optopol.com)

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